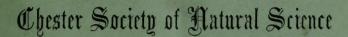


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(FOUNDED BY CHARLES KINGSLEY, - 1871.)

FIFTEENTH ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,





CHESTER:

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCLXXXVI.



S. 27.-A.2.

Chester Society of Natural Science

(Founded by Charles Kingsley, 1871.)

FIFTEENTH ANNUAL REPORT

AND

STATEMENTS OF ACCOUNTS for 1885-86,

AND THE

LIST OF MEMBERS FOR 1886-87,

ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR COMPETITION.





HESTER .

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCLXXXVI.

Officers and Committee for 1886-87.

Prof. T. McKENNY HUGHES, M.A., F.S.A., F.G.S., &c.

Vice-Presidents :

HIS GRACE THE DUKE OF WESTMINSTER, K.G.
THE RIGHT WORSHIPFUL THE MAYOR OF CHESTER.
A. O. WALKER, Esq., F.L.S.
W. M. DOBLE, Esq., M.D.

A. O. WALKER, ESQ., F.L.S.
W. M. DOBIE, ESQ., M.D.
C. W. POTTS, ESQ.
H. STOLTERFOTH, ESQ., M.A., M.D.
T. SHEPHEARD, ESQ., F.R.M.S.

Officers of Sections:

CHAIRMAN—MR. A. O. WALKER, F.L.S. The Leadworks.
SECRETARY—MR. T. SHEPHEARD, F.R.M.S... Kingsley Lodge, Liverpool Road.
GEOLOGICAL.

CHAIRMAN—MR. SHRUBSOLE, F.G.S. Town Hall Square. Secretary—Mr. W. SHONE, F.G.S. Upton Park.

NATURAL PHILOSOPHY.

CHAIRMAN—MR. G. WATMOUGH WEBSTER, F.C.S....5, Eversley Park,
Liverpool Road.
Secretary—MR. W. F. LOWE, A.R.S.M., F.I.C., F.C.S...Cambrian View.

MICROSCOPICAL.

CHAIRMAN—DR. STOLTERFOTH, M.A. 60, Watergate Street. Secretary—Mr. J. D. SIDDALL Eaton Road.

Hon. Curator:
Mr. SHRUBSOLE, F.G.S., Town Hall Square.

Hon. Trensurer:
MR. JOHN MILLS, 4, Eastgate Row.

Mon. Secretaries :

Hon. Fibrarian : Mr. P. H. FLETCHER, Woodbrae, Curzon Park.

Committee :

THE ABOVE OFFICERS, Ex-Officio;

MR. R. FARMER
REV. A. H. FISH, B.A., B.Sc.
MR. JOHN GRIFFITHS

AND
MR. F. F. HICKMAN
MR. M. JOHNSON, L.D.S.I.
DR. H. W. KING, M.B.

Mr. J. ROWE DUTTON Mr. W. VINCENT

Custodian:
MR. R. NEWSTEAD, Museum, Grosvenor Street.

RULES.

1.—That the Title of this Society be "The Chester Society of Natural Science," and that its object be the promotion of the study of Natural Science, by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2.—That the Officers be a President, Six Vice-Presidents, Treasurer, Three

Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above-named Officers, who shall be Ex-Officio Members, and Six other Members of the Society—the President or a Vice-President the Chairman; and that the practical management of the Society be vested in the Committee, subject to the following Rules:—

4.—That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee, previous to a General Meeting.

5. That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life

Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five.

7.—That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section may, on application, allow a Member to introduce more than one friend to their own Sectional Meeting.

8.—That any Member desirous to withdraw from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year.

9.—That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10.—That the Committee shall meet monthly for the despatch of business;

Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No Paper shall be read without the previous sanction of the Committee. Objects of

scientific interest may be exhibited at the Evening Meetings.

13.—That at the Annual General Meeting, which shall be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six Days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

The Chester Society of Natural Science has now been in existence fifteen years, and is on the whole in a prosperous condition. We have amongst us many who were with us from the first, and those who have joined us in later years have done much to further the interests of the Society, and are earnest supporters of its welfare. During the past year we have had to deplore the loss of one of our Vice-Presidents, Dr. Howson; three of our distinguished Honorary Members: W. B. CARPENTER, Esq., M.D., F.R.S.; George Bentham, Esq., F.R.S., F.L.S.; and D. C. Davies, Esq., F.G.S.; and also our valued friend Mr. C. F. Fish.

Your Committee must here express their deep sorrow at the loss of Dr. Howson, one of our first Vice-Presidents, and one who was associated with the Society, and its Founder, from its earliest days. Dr. Howson was Secretary to the Chester Museum of Natural History and Archæology, and took an active part in raising funds towards its completion. He was zealous in promoting all good works for the welfare of the citizens, and his kindly sympathy will be greatly missed by those who were associated with him in the promotion of Science and Art.

Dr. Carpenter's loss is one to be universally lamented, and our Society (many of whose Members had the pleasure of knowing him personally) were truly grieved to hear of his death.

It is our sad duty, also, to record the death of one whose life had for several years been closely connected with our Society. In Mr. Charles Fish the Society has lost a Member to whose many-sided activity in its service it is scarcely possible to do justice. The example of his own ardent love for Nature, of his single-minded devotion to the Truth which Nature teaches, has of itself done much, during the years that he has been one of us, to promote the ends for which the Society was founded. Himself a constant and regular attendant at all meetings of the Society,

he was ever ready to contribute Papers or Lectures in the several Sections. Few who heard him will ever forget the pleasant and humorous manner which so attracted his audience, and the interest which his own enthusiasm, no less than his firm grasp of the subject, helped to inspire. His varied knowledge and practical wisdom made him an invaluable member of your Committee, while his genial disposition and singleness of purpose had greatly endeared him to all his colleagues. His death at the early age of 25, leaves a gap in the Society which it will be hard indeed to fill, but your Committee believe that the memory of his own earnest work, and his own high character, will ever live among those who knew him best (in this Society), and will bear their fruit in the furtherance of the aims to which so much of his short life was given, and in the increasing prosperity of the Society which he so greatly loved, and in whose service he laboured so untiringly.

We have elected forty-three, and lost by death and removal twenty-four, Ordinary Members.

The year 1886 will mark a crisis in the existence of the Society. Since the first formation of the Society we have had no permanent home in which to place our collections. Now, in the course of a few weeks, we shall have a Museum and place of meeting such as few of us ever expected. Most of you have seen the building now in course of erection. It is proposed that it shall be opened early in August There is still, we regret to say, more than £1,500 to be collected before the structure is paid for, but your Committee hope that every effort will be made by our own Members, as well as other kind friends, to clear off this deficiency, so that we may enter our new premises free of debt. We must always remember that it was the great generosity of HIS GRACE THE DUKE OF WESTMINSTER, and other liberal subscribers, which enabled us to undertake a building of such magnitude: a building not only adapted to the various branches of study to be conducted under its roof, but eminently ornamental to the City, and a legacy to future Citizens who may wish to keep alive the love of Science and Art. The work of the Contractor, Mr. Gabbutt, has been carried out under the superintendence of our able Architect, Mr. Lockwood, who has spared no pains to meet the varied requirements for which the whole building is designed. The united Committees of the various Societies have met frequently, and a special Sub-Committee has met every week, to see that the work was properly carried out. Our thanks are certainly due to these gentlemen for what they have done, and their labours will perhaps be better appreciated when we enter on our occupation, and see the care that has been bestowed on the details of the structure.

Since our last Report, the third number of the Proceedings of our Society is in the hands of the Members, and contains most of the Papers of real local interest that were read, up to 1883.

Some of our Members have taken part in the dredging expeditions of the Liverpool Biological Committee, and it will be seen in the Report that is about to be published that there are Papers in it by some of our best workers.

The Chester School of Science, which is in part managed by our Committee, has on its books 135 Students; and the Classes have been carried on through the past winter under the following Teachers:—

INORGANIC CHEMISTRY	Mr. W. F. Lowe
BOTANY	.Mr. J. D. SIDDALL
Animal Physiology	
STEAM	
APPLIED MECHANICS	Mr. F. GARSIDE and
MACHINE CONSTRUCTION AND DRAWING	Mr. W. E. Archer
BUILDING CONSTRUCTION	

These Classes have been under great disadvantages, owing to the crowded state of the room in Lower Bridge Street, and also the want of proper appliances. All this it is hoped will be altered during the next Session.

The last May Examination was very satisfactory, and showed that the instruction given had been of a high order, and the application of the Students commendable. There is every probability that the coming Examination will show equally good results.

Our Hon. Treasurer, MR. Mills, will read you the Balance Sheet of our Accounts, which we hope the Members will find satisfactory, for the powers of usefulness of a Society like ours must always largely depend on the careful management of its funds.

The Hon. Treasurer, Mr. E. J. Balllie, will read you the Balance Sheet of the Kingsley Memorial Fund.

Our Library has been increased during the past year as far as our means have allowed us, and a list of New Books will be appended to this Report. The Library is in good order. For the information of our Members I may state that there is a complete copy of the "Challenger" Reports, as far as published, in the Reference Department of the Free Library, which is open to any one who will take the trouble to ask for them.

Our Hon. Curator, Mr. Shrubsole, will read you his Report on the state of the Museum.

The more immediate work and record of what the Society has done I will summarize under the following heads—

Excursions
EVENING RAMBLES
CONVERSAZIONE

GENERAL LECTURES
SECTIONAL MEETINGS
PRIZES

During the past summer there were seven field excursions, and the following places were visited—

July 15th Ellesmere
August 5th Delamere Forest

On the whole we were more fortunate in our weather for the excursions than in previous years, and although we had visited most of the places before, still we had by no means exhausted their Natural History treasures. Our Members, however, seem to prefer new localities, as there was a falling off of Members in this year's excursions. The visit to the Caves at Tremeirchion, under the guidance of our President, was a rich treat to the Geologists. We have again to thank both the leaders of the parties, and those who planned the excursions for the trouble they took in making arrangements. The owners of property who offered us facilities for passing over their grounds have our warm acknowledgments. The visit to the Crewe Works cannot be exactly called Natural History, still we must remember that we have a Natural Philosophy Section, which takes under its care many mechanical processes, and our

Members showed their appreciation of a visit to these Works by a good attendance. We have especially to thank the Managers of these Works for the facilities they afforded us in visiting all the departments.

The Evening Rambles were continued on the same plan as last year, and some of them were quite as largely attended as our more extended excursions, and perhaps more real work done. The Committee again hope to organize these during the summer.

The Annual Conversazione took place on the Evenings of the 7th and 8th of October. This was a new arrangement, and one that we hoped would offer more facilities to our Members for seeing thoroughly all the objects collected for the occasion.

On Wednesday Evening, the 7th, HIS GRACE THE DUKE OF WESTMINSTER presented the Kingsley Memorial Medal to Mr. J. D. Siddall, and judging by the general applause which greeted his name, we are sure our Members felt that the highest honour our Society has to confer had fallen on a worthy recipient—one who has done much good original scientific work. and, as a teacher, inspired and promoted a love for the study of nature. This was followed by an address by SIR HENRY ROSCOE, F.R.S., who presented the Kingsley Memorial Prize to Mr. R. NEWSTEAD for his collection of the Lepidoptera and Coleoptera of the district, as well as the Prizes and Certificates gained at the May Examination by the successful students of the Chester School of Science. There were, in addition, two short lectures by the Rev. A. H. Fish, on the "Spectrum and Colour," and "Spectrum Analysis," in which he was assisted by MR. E. BINYON, from Owens' College, so that the first evening was one of varied interest.

On the Evening of Thursday, the 8th, the Lord Bishop of the Diocese presided, and there were a number of short lectures given by Members of the Society—

DR. STOLTERFOTH "On Diatoms and their fossil distribution."

MR. J. D. SIDDALL "Foraminifera past and present."

MR. C. F. FISH..... "A Day's Dredging on the Dee."

MR. SHONE, F.G.S. "On Local Geology."

MR. E. J. BAILLIE, F.L.S. .. "Weeds of the way side."

MR. M. JOHNSON" The Electric Light for the Microscope."

On both evenings the microscopes were arranged round the large Assembly Room of the Town Hall, instead of in the

Council Chamber. In some respects this was more convenient, and the heat from the lamps less felt. The general exhibits were quite up to the usual mark, and it is to be hoped that our Members appreciated the extension of the exhibition to two evenings, though, as a matter of course, this entailed much extra work on the Committee.

Our thanks are due most cordially to the late Mayor (C. Brown, Esq.), for granting us the use of the Town Hall, and for the kind assistance he has always given to our Society.

During the past winter there have been seven General Meetings, at which the following Lectures were given—
1885.

Oct. 29-"The Chester Society of Natural Science and its Founder," by DR. WATERS.

Dec. 3-"Discovery of Stellar distances," by S. OKELL, ESQ., F.R.A.S. 1886.

Jan. 8—"Further observations on the Silurian Rocks of N. Wales," by PROF. T. MCKENNY HUGHES, F.S.A., President.

Jan. 28—"The Study of History," by H. R. REICHEL, ESQ., M.A. (Principal of University College, North Wales).

Feb. 25--"The relation of Alchemy to Modern Chemistry," by J. J. Dobbie, Esq., M.A., D.Sc. (Prof. of Chemistry in U. C., North Wales).

Mar. 25—"The structure of Flowers," by R. W. PHILLIPS, Esq., B.A., B.Sc. (Lecturer on Biology in U. C., North Wales).

April 29-Annual Meeting.

The subjects treated in these lectures have embraced a large field, dealing with general topics as well as the more minute particulars. They have been well attended and highly useful. The Committee feel themselves deeply grateful to the University College, Bangor, North Wales, for giving them an opportunity of becoming acquainted with those who are now carrying on the higher education in the Principality, and they feel sure that under such teaching the cause of education in Wales will prosper.

The Sections into which our Society is divided have met as follow—

1885. ZOOLOGICAL SECTION.

Nov. 5-" Hilbre Island and its Zoology," by Mr. C. F. FISH.

Dec. 17-"Review of past year," by MR. A. O. WALKER, Chairman.

1886.

Feb. 11-" Zoological notes and observations," by Mr. W. THOMPSON.

April I—"The migration of Birds, and how to distinguish some of our summer visitors," by Mr. W. H. Dobie, M.B.

1885. GEOLOGICAL SECTION.

Nov. 12—"On changes of Climate in the near Geological past, as evidenced by the fossil remains of Plants and Animals," by Mr. W. Shone, F.G.S., Secretary.

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Feb. 18-" Volcanoes: their structure and products," by MR. W. H. OKELL.

April 8—"Geological Photography," by Mr. OSMOND W. JEFFS (Liverpool Geological Association).

1885. NATURAL PHILOSOPHY SECTION.

Nov. 19--"Artificial Light," by the Rev. Alban E. RAGG, M.A. 1886.

Feb. 4—"On some Meteorological Instruments and their use," by MR. G. W. WEBSTER, Chairman.

Mar. 4-" Extraction of Ammonia from coal and furnace gases," by MR. T. E. PyE.

April 15-"Some familiar Foods, and how they are adulterated," by MR. W. F. LOWE, A.R.S.M., Secretary.

1885. BOTANICAL SECTION.

Dec. 10-" First Introductions," by Mr. J. PRICE, M.A., Chairman. 1886.

Jan. 14—"Alternation of generations in the Vegetable Kingdom, as illustrated by some Thallophytes," by Mr. E. HAMILTON ACTON, B.A. (St. John's College, Cambridge).

Mar. 18—" Notes on local Botany," by Mr. C. F. Fish.

1886. MICROSCOPICAL SECTION.

Jan. 21—"On the Polishing-slate of Archangelsk-Kurojedows, Simbirsk, Russia, 1885," by Dr. Otto N. Witt (translated from the German, and read by the *Chairman*, Dr. Stolterfoth).

Mar. 11-"Foraminifera of the River Wyre," by Mr. J. D. SIDDALL, Secretary.

April 22—Conversational Evening. "On Pond Life: where to find and how to show examples."

The Sections have met regularly through the past winter, and it will be seen that we have secured four additional Members who have come forward for the first time with Papers. Some of the Sectional Meetings have been well attended, and on the whole the quality of the Papers has been good.

Your Committee have met frequently during the past year, and much troublesome business has had to be gone through in order to retain a place for our Collections, and the use of the Rooms in Lower Bridge Street, till we move into the New Buildings. This has been done, though at some inconvenience, in order to prevent two removals which would have increased our expenses. The Committee trust that their arrangements have met with the approval of the Members In all things their wish is for the general prosperity of the Society, and to promote the love and study of Natural Science.

Your Committee cannot close this Report without saying that they consider the present time as a very fit one to appeal to all our own Members and friends for contributions to the New Museum, remembering always that our Museum is a local one, and for the display of local objects. With improved surroundings and a new building, the Society may anticipate a new lease of life. A large accession of new Members would be very encouraging, and though our subscription is small, only 5/- per annum, still we have so far kept clear of debt, and we may hope that under new conditions we shall be equally fortunate.

HENRY STOLTERFOTH, M.A., M.D., Scientific Secretary.

CURATOR'S REPORT FOR 1885-86.

There has been received, on behalf of the Museum, a group of Gwyniads from Bala Lake, in an elegant glass case, the gift of Sir Watkin Williams Wynn, Bart.

DR. HICKS, F.G.S., and J. B. LUXMOORE, Esq., of St. Asaph, have bestowed much time on a scientific exploration of the Tremeirchion Bone Caves, and have generously given to our Museum a share of the valuable results, for which the Society returns hearty thanks.

We are also indebted to the following Gentlemen for donations of Fish, Birds, or Insects—Mr. A. O. Walker, Mr. Arthur Potts, Mr. F. A. Walker, Mr. E. J. Baillie, Dr. W. H. Dobie, Mr. Henry Thomas, Mr. Shrubsole; and for Marine objects to Dr. Henry Thomas.

GEORGE W. SHRUBSOLE.

CHESTER, APRIL 29, 1886.

The Hon. Treasurer in Account with the Chester Society of Natural Science, for the Year 1885-86.

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June 30th, 1886-Examined and found correct, showing a balance due to the Treasurer of One Pound Three Shillings and Sixpence,

JOHN MILLS,
HON. TREASURER.

J. ROWE DUTION, HON.
W. VINCENT, AUDITORS.

"KINGSLEY" MEMORIAL FUND.

STATEMENT OF ACCOUNTS for the Year ended 30th April, 1886.

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Examined and found correct,

W. VINCENT,

HON. AUDITOR.

HON. TREASURER.

EDMUND J. BAILLIE,

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KINGSLEY MEMORIAL PRIZES.

Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition, and which have already been advertised in local and other newspapers:—

1886;

A PRIZE of TEN POUNDS for the best collection of "BEES AND WASPS collected in the SOCIETY'S DISTRICT."

1887.

A PRIZE of TEN POUNDS for the best Essay on the "PHYSIO-GRAPHY OF THE SOCIETY'S DISTRICT" (on the lines of Professor Huxley's Physiography.)

In addition to the above Prizes, the Committee have decided that in order to encourage scientific research, they will make grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS or ESSAYS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

The Essays or Collections may be sent in to the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Collections or Essays, or any part of them, for the Society.

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Price, Rev. Elis	.56 Watergate street
Price, Mr. Paul	Bryntirion, Chichester street
Price, Mr. Warmsley	The Studio, Bridge street row
Price, Mrs. Warmsley	22

Prichard Mr. Geo.	10 St. John's road, Queen's park
Prichard Miss	, ou journe roum, garden e pare
Prichard, Miss	Fornville Curzon park
Des Mr. Ton	Clausille House Everyley north
Pye, Mr. Jas	Clovelly House, Eversley park
*Pye, Mr. T. E	Gas Works, Ellesmere, Salop
*Ragg, Rev. Alban E., M.A	Brook Lane
Raingill, Mrs	Queen's park
*Ramsden, Mr. W.	Cheshire Observer, Eastgate row (North)
Ratford, Mr. Herbert	The Blue School
Rayner, Miss	Ash grove Wrexham road
Ray Mice	3 Eastern pathway, Queen's park
Doilly Mr Owen	Abbox green
Reilly, Mr. Owen	Abbey green
Reilly, Mrs. Owen	'' T' '' '' T' ' 1 1
Rhodes, Mrs	York villas, Liverpool road
*Riches, Mr. J. I	Spring cottage, Dee banksCourant Office, Northgate street
Richmond, Mr. G. B	· · Courant Office, Northgate street
Ridehalgh, Mr. George	5 Lumley road
Roberts, Mr. J	15 Bridge place
Roberts, Miss	Bank Cottage, Neston
Roberts, Miss Annie	14 Stanley place
Roberts, Miss M	2.8 Nicholas street
Roberts, Dr	. 8 Abbey square
Rogers Mr Ino.	2 Upper Park place Richmond Hill Surrey
Rogers Mr W	3 Upper Park place, Richmond Hill, Surrey Watergate House
Pagaran Mr G H	4 Nicholas street
Rogerson, Mr. G. H	Dulfoud man Wanham
Rowland, Mr. J.	Diagle Deele
POVICE MIS. 1. V. COLORS	
D 1 35 T D D	Transle Constitution
Royle, Mr. T. R. P.	Hough Green House
Royle, Mr. T. R. P Royle, Mrs. T. R. P	Hough Green House
Royle, Mrs. T. V. Royle, Mr. T. R. P. Royle, Mrs. T. R. P. Rush, Mr. E.	Hough Green House27 Foregate street
Royle, Mr. T. R. P. Royle, Mrs. T. R. P. Rush, Mr. E.	
Rush, Mr. E	27 Foregate street
Rush, Mr. E	27 Foregate street
Salisbury, Miss E. A	12 Lorne street
Salisbury, Miss E. A. Salt, Mr. Harry S	12 Lorne street 61 Garden lane
Salisbury, Miss E. A	12 Lorne street61 Garden laneFrodsham
Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr.	12 Lorne street61 Garden laneFrodsham22 Chichester street
Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr. Scotland, Colonel	12 Lorne street61 Garden laneFrodsham22 Chichester street Eccleston Hill, Chester
Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr. Scotland, Colonel Scott, Mr. John	12 Lorne street61 Garden laneFrodsham22 Chichester streetEccleston Hill, Chester19 Chichester street
Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr. Scotland, Colonel Scott, Mr. John	12 Lorne street61 Garden laneFrodsham22 Chichester streetEccleston Hill, Chester19 Chichester street
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Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr. Scotland, Colonel Scott, Mr. John Segar, Mr. F. Selwood, Mr. T. Sharpe, Mr. F. W. Shaw, Mr. R. G.	
Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr. Scotland, Colonel Scott, Mr. John Segar, Mr. F. Selwood, Mr. T. Sharpe, Mr. F. W. Shaw, Mr. R. G. Sheaff, Miss Constance B.	27 Foregate street12 Lorne street61 Garden laneFrodsham22 Chichester streetEccleston Hill, Chester19 Chichester street8 Abbey streetEaton Gardens, ChesterNewton House, ChesterBridge streetBridge streetSunnvside, Cambrian view
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Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr. Scotland, Colonel Scott, Mr. John. Segar, Mr. F. Selwood, Mr. T. Sharpe, Mr. F. W. Shaw, Mr. R. G. Sheaff, Miss Constance B. Sheaff, Mr. G. H *Shepheard, Mr. T., F.R.M.S. Shepheard, Miss.	27 Foregate street12 Lorne street61 Garden laneFrodsham22 Chichester streetEccleston Hill, Chester19 Chichester street8 Abbey streetEaton Gardens, ChesterNewton House, ChesterBridge streetBridge streetSunnyside, Cambrian viewKingsley Lodge, Liverpool road
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Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr. Scotland, Colonel Scott, Mr. John Segar, Mr. F. Selwood, Mr. T. Sharpe, Mr. F. W. Shaw, Mr. R. G. Sheaff, Miss Constance B. Sheaff, Mr. G. H *Shepheard, Mr. T., F.R.M.S. Shepheard, Miss Emma Shepheard, Miss Emma Shepheard, Miss Annie *Shone, Mr. W., F.G.S.	27 Foregate street12 Lorne street61 Garden laneFrodsham22 Chichester streetEccleston Hill, Chester19 Chichester street8 Abbey street8 Abbey streetNewton House, ChesterNewton House, ChesterBridge streetSunnyside, Cambrian viewKingsley Lodge, Liverpool road,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr. Scotland, Colonel Scott, Mr. John. Segar, Mr. F. Selwood, Mr. T. Sharpe, Mr. F. W. Shaw, Mr. R. G. Sheaff, Miss Constance B. Sheaff, Mr. G. H *Shepheard, Mr. T., F.R.M.S. Shepheard, Miss Emma Shepheard, Miss Emma Shepheard, Miss Annie *Shone, Mr. W. *Shrubsole, Mr. W. *Shrubsole, Mr., F.G.S. Silk, Mr. Chas. *Siddall, Mr. J. D. Siddall, Mr. Siddall, Mr. Salidall, Mr. Salidall, Mr. Salidall, Mr. Siddall, Mr. Salidall, Mr.	12 Lorne street 16 Garden lane Frodsham 22 Chichester street Eccleston Hill, Chester 19 Chichester street 8 Abbey street 8 Abbey street 10 Chichester street 10 Chichester street 10 Chichester street 10 Chichester street 11 Chichester street 12 Chichester street 13 Chester 14 Chester 15 Chester 16 Chester 17 Chester 17 Chester 18 Chester 19 Chester
Salisbury, Miss E. A. Salt, Mr. Harry S. Sant, Mr. T. Schröeder, Mr. Scotland, Colonel Scott, Mr. John Segar, Mr. F. Selwood, Mr. T. Sharpe, Mr. F. W. Shaw, Mr. R. G. Sheaff, Miss Constance B. Sheaff, Mr. G. H. *Shepheard, Miss Emma Shepheard, Miss Fina Shone, Mr. W., F.G.S. Shone, Mr. W., F.G.S. Slik, Mr. Chas. *Silk, Mr. Chas.	12 Lorne street 16 Garden lane Frodsham 22 Chichester street Eccleston Hill, Chester 19 Chichester street 8 Abbey street 8 Abbey street 10 Chichester street 10 Chichester street 10 Chichester street 10 Chichester street 11 Chichester street 12 Chichester street 13 Chester 14 Chester 15 Chester 16 Chester 17 Chester 17 Chester 18 Chester 19 Chester

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Smith, Mr. T	.Blacon Point, Chester
Smith Mrs S	. 16 Nicholas street
Smith Miss H	Hampton Lodge, Liverpool road
Smith, Miss Fanny	Beechwood House, 10 Canal street
Smith, Mr. F.	. Beechwood House, 10 Canal street
Smith, Miss	, ., ., .,
Smith Miss F	* " " "
Smith Mice I	. 11 11 11
Smith, Miss F. Smith, Miss L. Smith, Mr. John	Market square
Carith Mr. Harry C	Oneen's park
Smith, Mr. Harry S	Parrowmara Hall near Checter
Smythe, Miss	. Darrowmore Trans, near Chester
Snelson, Miss S	22 repper street
Spencer, Mr. Walter A	. Barrel Well, Doughton
Spencer Mr	. 26 Bridge street
Spooner, Miss	.Newton Cottage, near Chester
Spooner, Miss Stevenson, Mr. A.	. Grosvenor park road
Stevenson, Mr. Fletcher W	. Underchine, Lumiey road
Stewart, Mrs	. 30 White friars
*Stolterfoth, Dr., M.A	.60 Watergate street
Stolterfoth, Mrs	
Ctaltanfath Miss.	23 23
Stolterfoth, Miss	at The Groves
Storr, Mr	, 21 THE GIOVES
Storr, Miss	Victoria pathway, Queen's park
Storrar, Mrs. Andrew	5 Victoria pathway, Queen's park
*Strahan, Mr. Aubrey, M.A. F.G.	S. H.M. Geological Survey, Museum, Jermyn street, London, S.W.
Ottunum, min zzaorej, zaman z rom	Jermyn street, London, S.W.
Summers, Mr. E.	. I South view, Larvin road
Sumner, Mrs. A	. 1 Castle Esplanade
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Tohor Mr T	Church street Upper Northgate street
Tabor, Mr. J.	Church street, Upper Northgate street
Tait, Mrs	31 Pepper street
Tait, Mrs	31 Pepper street
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A.	Stisted Rectory, Braintree, Essex
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C.	31 Pepper streetStisted Rectory, Braintree, Essex
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S.	31 Pepper street
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. I.	31 Pepper street Stisted Rectory, Braintree, Essex9 Hackin's Hey, Liverpool4 Grosvenor place21 Saint John street
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. I.	31 Pepper street Stisted Rectory, Braintree, Essex9 Hackin's Hey, Liverpool4 Grosvenor place21 Saint John street
Tait, Mrs. Tait, Miss	31 Pepper street
Tait, Mrs. Tait, Miss	31 Pepper street
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs.	31 Pepper street, ""
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs.	31 Pepper street, ""
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mrs. Taylor, Mrs. Taylor, Mr. J. B. Taylor, Mr. J. B. Taylor, Mr. J. B. Taylor, Mr. R. Mascie	31 Pepper street Stisted Rectory, Braintree, Essex 9 Hackin's Hey, Liverpool 4 Grosvenor place 21 Saint John street 18 Newgate street 78 Watergate street Meadow View, Dee banks 4 Hough green Tyn Llwyn, Corwen
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mrs. Taylor, Mr. R. Mascie. Taylor, Mr. R. Mascie. Tennant, Mrs.	31 Pepper street, "", "", "", "
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mrs. Taylor, Mr. R. Mascie. Taylor, Mr. R. Mascie. Tennant, Mrs.	31 Pepper street, "", "", "", "
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mrs. Taylor, Mrs. Taylor, Mr. J. B. Taylor, Mr. J. B. Taylor, Mr. R. Mascie. Tennant, Mrs. Tennant, Miss Thomas, Mr. Frank P.	31 Pepper street
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mr. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Miss Thomas, Mr. Frank P. Thomas, Miss M.	31 Pepper street""""""" .
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mrs. Taylor, Mr. J. B. Taylor, Mr. J. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Mrs. Thomas, Mr. Frank P. Thomas, Miss M.	31 Pepper street
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mrs. Taylor, Mr. J. B. Taylor, Mr. J. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Mrs. Thomas, Mr. Frank P. Thomas, Miss M.	31 Pepper street
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mrs. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Miss Thomas, Mr. Frank P. Thomas, Miss F. M. Thomas, Miss F. M. Thomas, Mr. E. J. Thomas, Mr. Maurice	31 Pepper street""""""" .
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mrs. Taylor, Mr. J. B. Taylor, Mr. J. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Mrs. Tennant, Miss Thomas, Miss M. Thomas, Miss M. Thomas, Miss F. M. Thomas, Mr. F. J. Thomas, Mr. F. J. Thomas, Mr. Maurice Thomas, Mr. Maurice	31 Pepper street
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. Tate, Mr. A. Norman, F.I.C. Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mr. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Miss Tennant, Miss Thomas, Mr. Frank P. Thomas, Miss F. M. Thomas, Mr. Maurice Thomas, Mr. Maurice Thomas, Mr. Maurice Thomas, Mr. R.	31 Pepper street31 Pepper street31 Mackin's Hey, Liverpool4 Grosvenor place21 Saint John street18 Newgate street78 Watergate streetMeadow View, Dee banks4 Hough greenTyn Llwyn, CorwenCity walls (South)
Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. Tate, Mr. A. Norman, F.I.C. Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mr. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Miss Tennant, Miss Thomas, Mr. Frank P. Thomas, Miss F. M. Thomas, Mr. Maurice Thomas, Mr. Maurice Thomas, Mr. Maurice Thomas, Mr. R.	31 Pepper street31 Pepper street31 Mackin's Hey, Liverpool4 Grosvenor place21 Saint John street18 Newgate street78 Watergate streetMeadow View, Dee banks4 Hough greenTyn Llwyn, CorwenCity walls (South)
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Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mr. J. B. Taylor, Mr. J. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Mrs. Tennant, Miss Thomas, Mr. Frank P. Thomas, Miss F. M. Thomas, Mr. E. Thomas, Mr. Maurice Thomas, Mr. Relix Thomas, Mr. Felix Thomas, Mr. Felix Thomas, Miss Elizabeth Thomas, Mr. H.	31 Pepper street""""""" .
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Tait, Mrs. Tait, Miss Tarver, Rev. Canon, M.A. *Tate, Mr. A. Norman, F.I.C. *Tate, Mr. Walter, F.C.S. Tatlock, Mr. J. Taylor, Mr. J., F.R.C.S. Taylor, Mr. A. G. Taylor, Mrs. Taylor, Mr. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Miss Tennant, Miss Thomas, Mr. Frank P. Thomas, Miss F. M. Thomas, Mrs. F. J. Thomas, Mr. Re. Thomas, Mr. Re. Thomas, Mr. Relix Thomas, Mr. R. Thomas, Mr. R. Thomas, Mr. Felix Thomas, Mr. H.	31 Pepper street

Tibbits, Mr. G	. I King's buildings . Eccleston, Chester .45 Nicholas street
Tomlin, Mrs. Tomkinson, Mr, Jas., J P. Trelawny, Mr, H. D., J.P. Trelawny, The Hon. Mrs.	. Willington Hall, Chester . Shotwick park, Chester . "
Utting, Miss	, 18 Upper Northgate street
*Vincent, Mr. W	. 73 Bouverie street
Vincent, Mrs. W	• ,, ,,
Vine, Rev. A. H	, I Egerton terrace
Wakefield, Mr. T	. 1 Parkgate road
Wakefield, Mr. T*Walker, Mr. A. O., J.P., F.L.S.	.The Leadworks, Chester
Walker Mr F. A.	10. Newgate street
Walker, Mrs. A. O. Walker, Mr. F. A. Walker, Miss *Ward, Mr. J. C.	. 12 Liverpool road
*Ward, Mr. J. C	. 11 Hough green
Ward, Miss	" "
Ward, Mr. A. E	Duke street
*Waters, Dr., J.P	76 Watergate street
Weaver, Mr. W. M.	Westminster Buildings
*Webster, Mr. G. Watmough, F.O.	.Westminster Buildings C.S5 Eversley park, Liverpool road
Wells, Mr. E., Junr.	. Eccleston
Welsby, Mr. Walter	, Queen's park
Welsby, Mrs. Walter	· ;; ;;
White, Miss E.	5 Abbey street
Whittingham, Mr. Wm	, Eccleston
Whittington, Mr. R. C. A Wilbraham, Miss E	13 Abbey street
Wilcock, Mr. T. M.	24 St Martin's in the fields
Wilkinson, Mr. R.	21 Victoria road
Wilkinson, Mr. C.	47 Watergate street
Williams, Miss S Williams, Miss S Williams, Mr. J. E. Williams, Mr. T.	Blacon House
Williams, Miss S	C-TT
Williams, Mr. J. E	6 Northgate street
Williams, Key, Walkin, M. A	Bodelwyddan, nr. Khyl
Williams, Mr. R. I	. 12 Brunswick buildings, Liverpool
Williams, Mr. J. R. Williams, Mr. F. H.	Dorchester House, Boughton
Williams, Mr. F. H	.35 Parkgate road
Williams, Mr. C. R	Fern Cottage 56 Tarrin road
Willis, Mr. G.	Bunbury, Chester
Willis, Mr. G	The Poplars, Dee banks
Wiseman, Mr. Henry	. 1)
Wood, Mrs.	.28 Queen street
Wood, Miss	• 25 29

Woodfin;	Miss	 	26	Lorne st	reet
Woolley,	Miss	 	Bri	dge stree	et row
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		 		,,	,,

Notice.—Copies of the Society's Proceedings, (No. 1, price 6d., Nos. 2 and 3, price 2/6 each), may be obtained from the Hon. Treasurer or the Custodian, at the Museum.

THE CATALOGUE of the Society's Library, with recent additions (price 1d.), may be obtained from Mr. John Mills, Eastgate Row; Mr. G. R. Griffith, Grosvenor Street; or the Custodian, at the Museum.



The following Books have been added to the Library since the last Annual Report was issued:

BOTANICAL SECTION.

В	181	Crookshank (E. M.) An Introduction to Practical Bacteriology, based upon the methods of Koch	1886
		GEOLOGICAL SECTION.	
		Callaway (Dr.) Paper on Comparative Lithology. Presented by the Author	
		Callaway (Dr.) Paper on the Granitic and Schistose Rocks of Northern Donegal. Presented by the Author	
G	1528	Fourth Annual Report of the United States Geological Survey, 1882-83	1884
G	152c	Fifth Annual Report of the United States Geological Survey, 1883-84	1885
		Hicks (H.) On some recent views concerning the Geology of the North-West Highlands of Scotland	1885
		Hicks (H.) Results of recent Researches in some Bone-Caves in North Wales (Ffynnon Beuno and Cae Gwyn)	
G	153	International Geological Congress. Reports of Sub-Committees on Classification and Nomenclature. Presented by the President	1885
		Judd (J. W.) On the Tertiary and Older Peridotites of Scotland. Presented by the Author	
		Judd (J. W.) On the occurrence, as a common Rock-forming Mineral, of a remarkable Member of the Enstatile Group (Amblystegite vom Rath.) Presented by the Author	
		Judd (J. W.) A Problem for Cheshire Geologists.	

Presented by the Author.....

Judd (J. W.) Address to the Geological Section of the British Association 1885

GEOLOGICAL SECTION—Continued.

		Mémoires Du Comité Géologique, Vol. I., No. 4— Apercu Géologique Du District De Lipetzk, &c 1885
G	95	Proceedings of the Liverpool Geological Society, Part 1, Vol. V
G	131	Proceedings of the Geologists' Association, Vol. IX., Nos. 2, 3, 4, & 5 1885-86
		Reade (T. M.) Denudation of the two Americas. 1885
		Reade (T. M.) The Mersey Tunnel: Its Geological Aspects and Results 1885
		Reade (T. M.) The Drift Deposits of Colwyn Bay 1885
		Reade (T. M.) The North Atlantic as a Geological Basin
G		Strahan (A.) Memoirs of the Geological Survey— Geology of the coasts adjoining Rhyl, Abergele,
		and Colwyn 1886
~		Strahan (A.) On the Geology of Cheshire 1884
G	116	Transactions of the Manchester Geological Society, Vol XVIII., Parts 10 to 19
		Transactions of the Liverpool Geological Association, Vols. IV. and V 1884-86
G	81	Vol. XXXIX of the Paleontographical Society for the year 1885
		MICROSCOPICAL SECTION.
M	45	Quarterly Journal of Microscopical Science, 3 Parts
M		The Journal of the Quekett Microscopical Club, 10 parts, 1883-85. Presented by Dr. Stolterfoth.
		MISCELLANEOUS.
		Actas de la Academia Nacional de Ciencias en Cordoba, Tomo V., Entrega Primera 1884
		Ditto ditto ditto Entre Segunda 1884
		Annual Report of the Liverpool Science Students' Association, Session 1884-85
		Annual Report of the Dudley and Midland Geological and Scientific Society and Field Club 1885

MISCELLANEOUS - Continued.

		Annual Report of the Menai Society of Natural Science and Literature	1885
X	28	Annual Report of the Brighton and Sussex Natural History Society for 1885	1886
X	99	Annual Report of the North Staffordshire Naturalists' Field Club and Archæological Society	1885
		Bana 1, 147. 1 and 2	1886
		Entrega 1a	1885
		Calendar of the University College of North Wales (Bangor) for the year 1885-86	
		Ewart (J.) Forestry in India	1885
		Ewart (J.) A few words upon (1) The lowest Forms of Living Things, (2) Physiology, (3) The Aryan and Aboriginal Races of India	1884
X	120	Grindon (L. H.) Country Rambles, and Man- chester Walks and Wild Flowers	1882
X	27	Index to the Proceedings of the Natural History Society of Glasgow, Vols. I. to V. (1851-1883)	1885
X	111	Official Year Book of the Scientific and Learned Societies of Great Britain and Ireland	1885
X	24 <i>f</i>	Proceedings of the Literary and Philosophical Society of Liverpool, Vol. XXXVIII	1884
X	26	Proceedings of the Liverpool Naturalists' Field Club for 1884-85	1999
X	27	Proceedings and Transactions of the Natural History Society of Glasgow, Vol. I., New Series, Part 2 (1884-85)	1886
		Proceedings of the Bristol Naturalists' Society, New Series, Vol. IV., Part 3 (1884-85)	1885
		Proceedings of Chester Society of Natural Science, No. 3.	
		Reports of British Association, 1882-83-84. Presented by S. Rigby, Esq., J.P	
		Report and Proceedings of the Manchester Field Naturalists and Archæologists' Society	1884

MISCELLANEOUS - Continued.

X	30	Report and Proceedings of the Manchester Scientific Students' Association for the year 1884
X	118	Richardson (R.) A Critique on the Criticisms of "The Simplicity of Life"
X	119	Richardson (R.) On the Nature of Life, an intro- ductory chapter to Pathology (2nd edition) 1879
X	116	Sainter (J. D.) The Jottings of some Geological, Archæological, Botanical, Ornithological, and Zoological Rambles round Macclesfield 1878
77	110	
Λ	115	Seventh Annual Report of the Dulwich College Science Society, 1884-85
X	117	Smith (E.) and Dallas (W. S.) A System of Natural History, being a structural and classi- fied arrangement of Plants and Animals 1855
		The Rochdale Field Naturalists' Journal (Monthly Parts)
		The Monthly Parts of "The Naturalist"
X	108	Transactions of the Yorkshire Naturalists' Union, Part 8, for the year 1883
		Transactions of the Huddersfield Naturalists' Society, 2 Parts
		Transactions and Report of the Nottingham Naturalists' Society
		Vol. IX. (Zoology) of the Scientific Results of the Exploring Voyage of H.M.S "Challenger," 1873-6. Being the Monograph by H. B. Brady, Esq., F.R.S., on Foraminifera. 1 Vol. of Plates and 1 of Text. Presented by the Author









Chester Society of Hatural Science

(FOUNDED BY CHARLES KINGSLEY, 1871.)

SIXTEENTH ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,

FOR THE YEAR 1886-7.



CHESTER:

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCLXXXVII.



Chester Society of Hatural Science

(Founded by Charles Kingsley, 1871.)

SIXTEENTH ANNUAL REPORT

AND

STATEMENTS OF ACCOUNTS for 1886-87,

AND THE

LIST OF MEMBERS FOR 1887-88,

ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR COMPETITION.



CHESTER:

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCLXXXVII.





Officers and Committee for 1887-88.

President :

PROF. T. McKENNY HUGHES, M.A., F.S.A., F.G.S, &c.

Vice- Presidents :

HIS GRACE THE DUKE OF WESTMINSTER, K.G.

A. O. WALKER, ESQ., F.L.S.
W. M. DOBIE, ESQ., M.D.
C. W. POTTS, ESQ.
H. STOLTERFOTH, ESQ., M.A., M.D.
T. SHEPHEARD, ESQ., F.R.M.S.

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ZOOLOGICAL.

CHAIRMAN—MR. A. O. WALKER, F.L.S. The Leadworks.
SECRETARY—MR. T. SHEPHEARD, F.R.M.S....Kingsley Lodge, Liverpool Road.

GEOLOGICAL.

CHAIRMAN—MR. W. SHONE, F.G.S. ... SECRETARY—MR. A. W. LUCAS, F.R.G.S. ... Upton Park. ... 7 Victoria Pathway, Queen's Park

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MR. JOHN MILLS, 4, Eastgate Row.

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MR. G. R. GRIFFITH, 30, Hough Green.

MR. W. H. OKELL, 1 Northgate Street. GENERAL

Jon. Librarian :

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Committee :

THE ABOVE OFFICERS, Ex-Officio;

AND

MR. R. FARMER REV. A. H. FISH, B.A., B.Sc. Mr. JOHN GRIFFITHS MR. F. F. HICKMAN MR. M. JOHNSON, L.D.S.I. DR. H. W. KING

... Eaton Road.

Mon. Anditors :

MR. J. ROWE DUTTON

MR. W. VINCENT

Curator :

MR. R. NEWSTEAD, The Grosvenor Museum.

RULES.

1,—That the Title of this Society be "The Chester Society of Natural Science," and that its object be the promotion of the study of Natural Science, by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2.—That the Officers be a President, Six Vice-Presidents, Treasurer, Three

Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above-named Officers, who shall be $Ex ext{-}Officio$ Members, and Six other Members of the Society—the President or a Vice-President the Chairman; and that the practical management of the Society be vested in the Committee, subject to the following Rules:—

4.—That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee, previous to a General Meeting.

5.—That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life

Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five.

7.—That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8.—That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year.

9.—That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10.—That the Committee shall meet monthly for the despatch of business;

Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No Paper shall be read without the previous sanction of the Committee. Objects of scientific

interest may be exhibited at the Evening Meetings.

13.—That at the Annual General Meeting, which shall be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules, Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six Days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

THE Chester Society of Natural Science has now completed its sixteenth year. Commencing in a tentative manner, it existed for fifteen years without any fixed abode, and it was only after our last Annual Meeting that we moved into the present beautiful and commodious building. This move and the arrangement of the Society's possessions, entailed a vast amount of labour on the officials, so that if we were asked what particular work had been achieved during the past year we should answer,—not Natural History, but the fitting of ourselves into a new habitat and learning how we could best adapt ourselves to the new environment; but, I think, you will find all has been done carefully, and with comparatively small injury to the specimens.

As the Grosvenor Museum building is managed by a special Committee, and we as a Society are only one of three bodies making use of, and supporting the whole Institution, we shall do well in this Report to confine ourselves to the special object that our Society has in view—to promote the study of the Natural History of the District. As this is intimately connected with the individuals who carry out the work, so the Report of the Society must deal with what is done by its own Members.

Your Committee have lost no Honorary Members during the past year, and have added to their number the name of the REV. A. M. NORMAN, who has always been a good friend to the Society.

We have elected during the year seventy-eight Ordinary Members, and have now on our books a total of 585 Members.

The Chester School of Science is now incorporated with the School of Art, and forms one body, and will in future be known as "The Chester School of Science and Art." under a separate Committee of Management. Your Committee which undertook the School of Science for so many years, was able to transfer it to the new management free of debt. With the improved accommodation, the new Schools have doubled in numbers, thus showing how much they are appreciated, and that they meet a want long felt in the City for improved Art, Technical, and Scientific teaching.

Our Hon. Treasurer, Mr. John Mills, will place before you the Annual Balance Sheet. This, the Committee consider to be very satisfactory, as the small adverse balance he reports may be fairly considered to be due to the cost of removal—the expenses incurred under this head having been considerable.

The Hon. Treasurer, Mr. E. J. Baillie, will read you the Balance Sheet of the Kingsley Memorial Fund, managed by our Society.

The Library has been put in thorough order by our Hon. Librarian, MR. P. H. FLETCHER, and MR. W. H. OKELL. The books are now more accessible than at any former time, and the facilities offered to the Members are much greater, so that your Committee hope that more use will be made of the Library than hitherto.

Our Hon. Curator, Mr. Shrubsole, will read you the Museum Report.

Your Committee take this opportunity of thanking Dr. ELLIS for his great kindness in naming the Collection of Coleoptera lately added to the Museum.

The work of the Society, and the means by which it endeavours to keep alive the interest of the Members, may be considered under the following heads—

EXCURSIONS
GENERAL LECTURES
EVENING RAMBLES

SECTIONAL MEETINGS
CONVERSAZIONE
PRIZES

During the past summer there were seven field excursions, and the following places visited—

1886.

May 27th......Gresford

June 14thEaton Hall (Grand Fête)
July 15thFarndon and Holt

July 21st Holmes Chapel

On the whole the excursions were not well attended: on two or three of the days the weather was deplorably wet, and the fact that many of our leading Members could not give the time and attention to the excursions which they had done in previous years, was another drawback. This was owing to the extra work entailed in the moving and arranging of our possessions in the new building, and seeing to the Loan Exhibition which was kept open in the Museum for some weeks with a view to increasing the Funds of the Building Committee.

The visit to Holmes Chapel, under the guidance of the Rev. H. G. Barnacle, was full of interest, and the splendid Conchological show in the School-room after tea, was a treat to many of our Members. The day spent at Colwyn was also very successful; for, thanks to Mr. A. O. Walker, who acted as our guide, we had the opportunity of seeing many curious shrubs in his garden, as well as exploring a district rich in Natural History objects.

The Evening Rambles suffered from the same causes as the excursions, and we must hope for better things in coming years.

For the first time since the formation of the Society, the Annual Conversazione was not held in the Town Hall. The reason for this was that we had a splendid Loan Collection in our New Museum, and it was thought well to give our Members an opportunity of spending an evening amongst treasures that might not again be brought together. This robbed our Conversazione of some of its usual characteristics. We had no

room for the Microscopes, and the only addition made was a show of Fungi in the Natural History room. In the Lecture Theatre there was a large gathering for the purpose of awarding the Kingsley Memorial Medal and Prize. Her Grace the Duchess of Westminster presented the Medal to Dr. Stolterfoth, and the Kingsley Memorial Prize of £10 to Mr. R. Newstead for his Collection of Bees and Wasps made in the Society's District. At the conclusion of the proceedings, the President of the Society, Prof. T. McKenny Hughes gave an address, entitled—"Footprints on the Sands of Time," which was listened to with deep interest.

In the past winter there have been seven General Meetings, at which the following Lectures have been given—

Oct. 28-" Caves and Cave deposits," by the PRESIDENT.

Nov. 25—"The structure and origin of Meteorites and Meteoric Iron," by H. CLIFTON SORBY, ESQ., LL.D, F.R.S.

Dec. 16—"The Silks of India and their Industrial Applications," by Thomas Wardle, Esq., of Leek.

1887.

Jan. 27—"Volcanoes; with special reference to recent Eruptions," by F. W. RUDLER, ESQ., F.G.S.

Feb. 24—"Ascidians: their Structure and Life History," by Prof. HERDMAN, D.S., F.L.S., F.R.S.E.

Mar. 31—"Things we do not see because they are so small," by the REV. H. H. HIGGINS, M.A. (President of the Liverpool Naturalists Field Club.)

April 28-Annual Meeting.

The attendance at these Meetings has been good, but hardly as numerous as the high quality of the Lectures might have led us to expect. Two of the Lecturers came for the first time before our Society—H. CLIFTON SORBY, Esq., and THOMAS WARDLE, Esq.—both men who have made a name, and who are distinguished by their thorough knowledge and enthusiasm in the special branches of scientific investigation which they pursue. Prof. Herdman's Lecture was full of instruction, and contained new matter of deep interest to our Members.

The five Sections under which our Society works, have each met three or four times during the winter, and the following

Papers have been read and discussed-

1886. GEOLOGICAL SECTION.

Nov. 4—"The silting up of the River Dee since the Roman occupation of Chester," by MR. W. SHONE, F.G.S., Secretary.

1887.

Feb. 10-"Fossil Footprints at Storeton," by MR. OSMUND W. JEFFS.

Mar. 24—"Local examples of subaërial as compared with Marine denudation," by Mr. W. Shone, F.G.S., Secretary.

1886. NATURAL PHILOSOPHY SECTION.

Nov. 11—"Coal Tar and Modern Dyes," by Mr. G. W. Webster, F.C.S., Chairman.

1887.

Feb. 17-"Biological Method of Water Analysis," by Mr. W. F. Lowe, A.R.S.M., Secretary.

MR. TURNER GRIFFITHS was announced twice to give a Paper on "Our Weights and Measures." On January 6th, he was prevented from doing so by a family bereavement; on the second occasion, which was the Thursday Evening before Good Friday, owing to an unfortunate accident the Chairman was not present, and the audience being small, MR. GRIFFITHS decided to defer reading his Paper. He has, however, kindly offered to give it at the commencement of our next Session.

1886. MICROSCOPICAL SeCTION.

Nov. 18—"The principles of the Camera Lucida, and how to draw with it," by Dr. Stolterfoth, M.A., Chairman.

1887.

Jan. 13—"The display (preparation and illumination) of living Microorganisms," by Mr. M. JOHNSON, F.R.M.S.

Mar. 10—"The preparation of Rock Sections for the Microscope," by Mr. J. D. SIDDALL, Secretary.

April 14—" Notes on Count Castracane's Report on the Diatomaceæ of the 'Challenger,'" by Dr. STOLTERFOTH, M.A., Chairman.

1886. BOTANICAL SECTION.

Dec. 2-"Striking Phenomena in a few familiar Plants," by MR. J. PRICE, M.A., Chairman.

1887.

Jan. 20-" On the dissemination of Plants," by MR. F. V. DUTTON.

Mar. 3—"The cultivation of Pears and Apples on the Northern Coast of Wales," by Mr. A. O. Walker, F.L.S.

April 21-" Notes on the Natural Order Graminæa," by MR. G. P. MILN.

1886. ZOOLOGICAL SECTION.

Dec. 9—"Review of the past Season, with a short account of the Dredging with the Liverpool Marine Biological Committee," by Mr. A. O. WALKER, F.L.S., Chairman.

1887.

Feb. 3—" On some details of the life history of *Planorbis Corneus*," by Mr. Shrubsole, F.G.S.

Mar. 17-" Circulation of Blood," by MR. R. T. CANN, M.R.C.S.

The only new Members who have favoured us with Papers are Mr. F. V. Dutton and Mr. R. T. CANN, M.R.C.S., and we have been glad to welcome them. Amongst so large a number of Members, we ought to have more Papers from fresh hands, and if some of our Members would only give us the result of what they observe and note, it would be of great benefit to the Society and use to the individuals themselves, for the work of preparing a Paper is a training in itself, and brings to an accurate focus much which would otherwise remain only a vague kind of knowledge. MR. Lowe's Paper was an admirable example of what patient industry can effect in a subject surrounded with difficulties. MR. WALKER'S Paper on the cultivation of Pears and Apples on the North Coast of Wales, was given in connection with a Fruit Conference held in the Museum, which may be expected to produce practical results. It ought to be one of the objects of our Society to help those industries which have as their basis a knowledge of the laws governing growth and reproduction; and it was a move in the right direction when our Society helped to start the Fruit Conference, though it will not be the business of the Society to follow it out into its practical working.

Besides the Sectional work of the Society, a number of Members have met weekly on Wednesday Evenings during the winter for the purpose of self-improvement. They have as far as possible worked through Huxley's Practical Biology. This they have done in order to lay a foundation for more extended work in the same direction, and hope during next winter to take up some special branch of Zoology, with a view to the better arranging and naming of the specimens in the Museum. A Section is in process of formation for the study and practice of Photography. This will be a source of strength to the whole Society, for scientific work is at the present day largely indebted

to Photography for a record of what are in many cases only transient phenomena. We, therefore, welcome our new fellowworkers with the greatest pleasure.

It is probable that in the following Winter the Meetings of the Microscopical Section will be discontinued, as it is felt that the Members of this Section can better help the Society by aiding the different Sections at their Meetings.

Your Committee has met seventeen times during the past year for carrying on the business of the Society. In many respects the work has been arduous, and the result as far as Natural History is concerned, has perhaps been small; but now that we are settled, we must hope to do more, and to show that with improved appliances about us, we can produce better work than we have hitherto.

Your Committee gladly avail themselves of this opportunity of thanking the Museum Management Committee for the uniform kindness and consideration they have accorded to any wish expressed by our Society, and if it has not been in their power to comply with all our suggestions, we know the reason has been lack of means, and a desire to keep the expenses of the Building within proper limits.

HENRY STOLTERFOTH, M.A., M.D., Scientific Secretary.

CURATOR'S REPORT FOR 1886-87.

We are indebted to Dr. Hy. Thomas for Mountain Limestone Fossils from the Great Orme's Head; to the Chairman of the Halkyn Mines Company, a fine block of Lead Ore; to Mr. Luxmoore for several boxes of Cave Bones; and to Mr. Shone, F.G.S., for his Collection of Shells from the Boulder Clay of the district.

GEORGE W. SHRUBSOLE.

GROSVENOR MUSEUM,
APRIL 22, 1887.

The Hon, Treasurer in Account with the Chester Society of Natural Science, for the Year 1886-87.

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By Subscriptions—	,	To Balance due to Treasurer	:	н	33	9
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	131 10 0	", Furniture and Fittings	:	4	I	∞
" Balance from Evening Meetings, Account	5 I4 3	" Cleaning and Attendance	:	4	IO	II
,, Sale of Society's Proceedings, &c	2 81 0	" Library—New Books, &c	:	a	10	7
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" Sale of Old Gas Meter	0 OI I	" Coal, Gas, Lamps, &c		63	2	0
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May 13th, 1887—Examined and found correct, showing a balance due to the Treasurer of Two Pounds Seventeen Shillings and Eightpence Half-penny,

JOHN MILLS,
HON. TREASURER,

J. ROWE DUTTON, W. VINCENT,

AUDITORS.

"KINGSLEY" MEMORIAL FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1887.

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Open to any Resident within the Society's District.

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A PRIZE of TEN POUNDS for the best Essay on the "PHYSIO-GRAPHY OF THE SOCIETY'S DISTRICT" (on the lines of Professor Huxley's Physiography.)

1888.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District The amount given will be proportionate to the quality of the Collection

In addition to the above Prizes, the Committee have decided that, in order to encourage scientific research, they will make grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

The Collections, Essays, or Notes of Observations may be sent in to either of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

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To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary according to Rule 8.

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Reilly, Mrs. Owen	, I Abbey green
Rhodes, Mrs	York villas, Liverpool road
Richmond, Mr. G. B.	. Courant Office, Northgate street
Roberts, Mr. J	. 15 Bridge place
Roberts, Miss	Spring villa, Upton park
Roberts, Miss	Bank Cottage, Neston
Roberts, Miss Annie	. 14 Stanley place
Roberts, Miss M	. 8 Nicholas street
Roberts, Dr	. 8 Abbey square
Rogers, Mr. James	. The Cross
Rogers, Mr. Jno 3	Upper Park place, Richmond Hill, Surrey
Rogers, Mr. W. Rogerson, Mr. G. H	. Watergate House
Rogerson, Mr. G. H.	.4 Nicholas street
Rowland, Mr. J	.Pulford, near Wrexham
Royle, Mrs. T. V.	. Dingle Bank
Royle, Mr. T. R. P	.Hough Green House
Royle, Mrs. T. R. P.	, ,, ,,
Royle, Mrs. T. R. P. Rush, Mr. E.	. 27 Foregate street
Salisbury, Mr. J.	. 12 Lorne street
Salisbury, Miss E. A	,, ,,
Sant, Mr. T.	Frodsham
Schroder, Mr. W. G.	. 22 Chichester street
Schröder, Mr. H	• ,, •,
Scotland, Colonel	Eccleston Hill, Chester
Scott, Mr. John	. 19 Unichester street
Segar, Mr. F	.8 Abbey street
Seguin, Mons. André	.36 King street
Selwood, Mr. T.	. Eaton Gardens, Chester
Sharpe, Mr. F. W	. Newton House, Chester
Shaw, Mr. R. G	. Bridge street
Shaw, Mr. R. G*Shepheard, Mr. T., F.R.M.S	. Kingsley Lodge, Liverpool road
Shanhaard Micc	
Shepheard, Miss Emma	* 27 17 21
Shepheard, Miss Annie	* 23 25 25
Shepheard, Miss Emma Shepheard, Miss Annie Shepheard, Mr. Wm. *Shone, Mr. W., F.G.S. Shone, Mrs. W	* 31
*Shone, Mr. W., F.G.S	. Upton park
Shone, Mrs. W. Shrubsole, Mr. Alfred	, ,,
Shrubsole, Mr. Alfred	. Town Hall square
Silk, Mr. Chas	. Mount Pleasant, Saltney
*Siddall, Mr. J. D	. 19 Eaton road
Siddall, Mrs	. ,,
Simpson, Mrs	.77 Parkgate road
Simpson, Mrs. Small, Mr. A. H.	.3 Deva terrace
Smallpeice, Miss	The High School, Dewsbury
Smallpeice, Miss	Blacon Point, Chester
Smith, Mrs. S	. 16 Nicholas street
Smith, Miss H	Hampton Lodge, Liverpool road
Smith, Miss Fanny	, ,, ,,
Smith, Mr. F	Beechwood House, 10 Canal street
Smith, Miss F	, ,, ,, ,,
	., ,, ,,
Smith, Miss L	
Smith, Miss L Smith, Mr. John	Market square
Smith, Mr. John	. Market square
Smith, Mr. John Smith, Mr. Harry	. Market square . Eversley park
Smith, Mr. John	Market square Eversley park Barrowmore Hall, near Chester

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Spencer, Mr. Walter A. .....Barrel Well, Boughton
Spencer, Mrs......36 Bridge street
Stevenson, Mr. A...... Grosvenor park road
Stevenson, Mr. Fletcher W.... Undercliffe, Lumley road
Stolterfoth, Miss ,, Storr, Mr. ,, 21 The Groves
 *Strahan, Mr. Aubrey, M.A., F.G.S. H.M. Geological Survey, Museum, Jermyn street London Survey
 Summers, Mr. E. ..... 1 South view, Tarvin road
 Sumner, Mrs. A. ..... Grosvenor place
 Tait, Mrs. ........................31 Pepper street
*Tate, Mr. A. Norman, F.I.C. 9 Hackin's Hey, Liverpool
Tatler, Mr. R. E. Woodbine cottage, Louise street
Tatler, Mr. A. ""
Tatlock, Mr. J. 121 Saint John street
Taylor, Mr. J., F.R. C. 5 18 Newgate street
Taylor, Mr. A. G. 78 Watergate street
Taylor, Mr. S. Meadow view, Dee banks
Taylor, Mr. J. B. 4 Hough green
Taylor, Mr. R. Mascie Tyn Llwyn, Corwen
Tennant, Mrs. City walls (South)
Tennant. Miss
 Thomas, Dr. E. J. Haynes .....,
 Thompson, Mrs. J. "

*Thompson, Mr. W. 41 Frodsham street
Thompson, Mrs. H. Curzon park
 Timothy, Mr. H. J. ..... Eccleston, Chester
 Tinkler, Mr. G. .....45 Nicholas street
 Tomlin, Mrs. Thorpe villa, Liverpool road
Tomkinson, Mr. Jas., J.P. Willington Hall, Chester
Townshend, Mr. C. W. Trevallyn, Wrexham
Trafford, Mr. Alfred R. 18 Lorne street
 Trelawny, Mr. H. D., J.P. . . . . . Shotwick park, Chester
 Trelawny, The Hon. Mrs. .....,
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Utting, Miss 18 Upper Northgate street

*Vincent, Mr. W	.Brook lane
Vincent, Mrs. W	· <u></u>
Vine, Rev. A. H	. I Egerton terrace
Wakefield, Mr. T	1 Parkgate road
*Walker, Mr. A. O., J.P., F.L.S	The Leadworks Chester
Walker, Mrs. A. O	The Beadworks, Onester
Walker, Mr. F. A.	10 Newgate street
Walker, Miss	12 I ivernal road
Walley, Miss	
*Ward, Mr. J. C.	
Word Miss	. 11 Hough green
Ward, Miss	Abbot's villas Liverpool road
*Waters, Dr., J.P.	Nicholas street
Way, Mr. N. A. E.	76 Wetergete street
Way, Mi. IV. A. D	Westmington buildings
Weaver, Mr. W. M	C.S5 Eversley park, Liverpool road
Webster Miss Amy P	C.S., 5 Eversley park, Liverpoor road
Webster, Miss Amy B	
Webster, Miss Janet	Factories Charter
Wells, Mr. E., Junr	
Welsby, Mr. Walter	.o Queen's park
Welsby, Mrs. Walter	· ;; ;;
Whatey, Mr. S	.1 Crane street
White, Miss E	II-labar Charter
Whiteley, Mr. F.	
Whittington, Mr. R. C. A	
Wilbraham, Miss E	
Wilbraham, Miss F	Ct 3/5- (*-1)
Wilcock, Mr. 1. M.	. 24 St. Martin S-in-the-neids
Wilkinson, Mr. R.	.7 Upper Nortngate street
Wilkinson, Mr. C.	.47 watergate street
Williams, Miss	, Blacon House
Williams, Miss S	6- TT
Williams, Mr. J. E	, of Opper Northgate street
Williams, Mr. T.	D-J-lJ D1-1
Williams, Rev. Watkin, M.A.	. Bodelwyddan, nr. Knyl
Williams Mr. I D	.12 Brunswick buildings, Liverpool
Williams, Mr. J. R	The Mount Wayner
Williams, Mr. C. R	Francesta - 56 Transis - 1
Williams, Mr. Jas	Pumbura Chaster
Willis, Mr. G.	The Deplement Description
Wiseman, Mr. C	. The Poplars, Dee banks
Wiseman, Mr. Henry	as Output street
Wood Miss	. 20 Queen street
Wood, Miss	26 I omo street
Wright Mr John	
Wright, Mr. John	.03 Douverie street
77 1 25 MI	
Yeadon, Mr. Thos	28 St. Anne street

Notice.—Copies of the Society's Proceedings, (No. 1, price 6d., Nos. 2 and 3, price 2/6 each); also the Catalogue of the Society's Library, with recent additions (price 1d.), may be obtained from Mr. John Mills, Eastgate Row; Mr. G. R. Griffith, Grosvenor Street; or the Curator, Grosvenor Museum.

The following Books have been added to the Library since the last Annual Report was issued:

BOTANICAL SECTION.

В	182	De Bary (A.) Comparative Anatomy of the Vege- tative Organs of the Phanerogams and Ferns 188	4
В	183	Vine's (S. H.) Lectures on the Physiology of Plants	6
		· GEOLOGICAL SECTION.	
G		Callaway (C.) On some Derived Fragments in the Longmynd and Newer Archæan Rocks of Shropshire	6
G		Deeley (R. M.) The Pleistocene Succession in the	
		Trent Basin 188	6
G	154	Geological Magazine, 1881 to 1885, 5 vols. Presented by Major Taylor	
G		Hicks (H.) Further Proofs of the Pre-cambrian Age of certain Granitoid Felsitic and other Rocks in N. W. Pembrokeshire	6
G		Hicks (H.) Report of the Committee appointed for the purpose of exploring the Caves of North Wales	6
G		Hicks (H.) The Cambrian Rocks of North America	7
G		Hicks (H.) The Faunas of the Ffynnon Beuno Caves, and of the Norfolk Forest Bed 188	7
G		Jeffs (O. W.) Note on the occurrence of Copper in the Keuper Sandstone at the Peckforton Hills, Cheshire	6
G	155	Phillips' (J.) Manual of Geology, Practical and Theoretical. Presented by Major Taylor 185	5
G	95	Proceedings of the Liverpool Geological Society, Part 2, Vol. V	6
		Transactions of the Liverpool Geological Association, Vol. VI	6

		GEOLOGICAL SECTION—Continued.
G	116	Transactions of the Manchester Geological Society, Vol. XIX., Parts 1 to 13 1887
G	82	Vol. XL. of the Palæontographical Society, issued
•	02	for the year 1886, containing—
		T. Williamson's Stigmaria Ficoides
		2. Hinde's Fossil Sponges, Part I
		4. Buckman's Inferior Oolite Ammonites, Part I
		5. Dawkins's Pleistocene Mammalia, Part 6 1887
		MICROSCOPICAL SECTION.
M		Transactions and Annual Report of the Man-
		chester Microscopical Society for 1885 & 1886,
		2 parts1886-87
		MISCELLANEOUS.
		Annalen des K. K. Naturhistorischen Hofmuseums
		Redigirt von Dr. Franz Ritter von Hauer,
		Vienna
		Ditto atti
		7 1 TT AT 00 m
		2
X	99	Annual Report and Transactions of the North Staffordshire Naturalists' Field Club and
		Archæological Society
37		Annual Report of the Board of Regents of the
X	107	Smithsonian Institution for 1884 1885
X	121	Annual Report of the British Association.
	121	Presented by S. Rigby, Esq, J.P 1885
X		Annual Report of the Menai Society of Natural
		Science and Literature 1886-871887
X	49	Bericht des Vereines für Naturkunde Zu Cassel, (XXXI. to XXXIII.)
	,,	Festschrift des Vereins für Naturkunde Zu Cassel 1886
	,,	Henry Draper Memorial, First Annual Report of
		the Photographic Study of Stellar Spectra,
		conducted at the Harvard College Observatory,
		U. S. A 1887

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X 36

X 108

X 122

MISCELLANEOUS—Continued. Mémoires de la Société des Naturalistes de Kiew, Tome VIII., Livraison 2...... 1887 Proceedings and Transactions of the Natural History Society of Glasgow, Vol. I., (New Proceedings of the Bristol Naturalists' Society, New Series, Vol. V., Part 1 1886 24g Proceedings of the Literary and Philosophical Society of Liverpool, Vol. XXXIX.1884-85 24h Ditto ditto 26 Proceedings of the Liverpool Naturalists' Field Club for 1885-86.... 1886 Proceedings of the Royal Society, Nos. 246 to 250......1886-87 Report and Proceedings of the Manchester Field Naturalists and Archæologists' Society for 1885 1886 Report and Proceedings of the Manchester Scientific Students' Association for the year 1885 1886 for 1886 1887 Ditto ditto ditto

Rochdale Field Naturalists' Journal

The Life and Works of Thomas Graham, D.C.L.,

Transactions of the Yorkshire Naturalists' Union,

F.R.S. 1884

Part 9, for 1884 1886













Chester Society of Natural Science

(FOUNDED BY CHARLES KINGSLEY, 1871.)

SEVENTEENTH

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,

FOR THE YEAR 1887-8.





CHESTER

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCLXXXVIII



Chester Society of Natural Science

(Founded by Charles Kingsley, 1871.)

SEVENTEENTH ANNUAL REPORT

AND

STATEMENTS OF ACCOUNTS for 1887-88,

AND THE .

LIST OF MEMBERS FOR 1888-89,

ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR COMPETITION.



CHESTER:

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCLXXXVIII.



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Vice- Presidents :

HIS GRACE THE DUKE OF WESTMINSTER, K.G.

A. O. WALKER, Esq., F.L.S.

W. M. DOBIE, Esq., M.D. C. W. POTTS, Esq.,

STOLTERFOTH, Esq., M.A., M.D. T. SHEPHEARD, Esq., F.R.M.S.

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Secretary-Mr. G. P. MILN 27, Chichester Street.

ZOOLOGICAL.

CHAIRMAN-MR. A. O. WALKER, F.L.S. ... SECRETARY-MR. T. SHEPHEARD, F.R.M.S. ... The Leadworks. ... I'ne Leaaworks.
...Kingsley Lodge, Liverpool Road.

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PHOTOGRAPHIC.

CHAIRMAN-MR. E. W. PARNELL, F.C.S. SECRETARY-MR. G. FRATERQueen's Park. ... 3, Lorne Street.

APPLIED SCIENCE.

CHAIRMAN-MR. W. J. P. FAWCUS, C.E. ... SECRETARY-MR. E. W. COWAN, A.M.I.C.E. ...37, Cambrian View. ... Victoria Iron Works.

Bon. Trensurer :

MR. JOHN MILLS, 4, Eastgate Row.

Mon. Secretaries :

...Dr. STOLTERFOTH, M.A., 60, Watergate Street. MR. G. R. GRIFFITH, 30, Hough Green. MR. W. H. OKELL, 1, Northgate Street. SCIENTIFIC GENERAL

Mon. Xibrarian :

MR. P. H. FLETCHER, Woodbrae Curzon Park.

Committee :

THE ABOVE OFFICERS, Ex-Officio; AND

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Mr. F. F. HICKMAN Mr. M. JOHNSON, L.D.S.I. Dr. H. W. KING

Hon. Anditors :

MR. I. ROWE DUTTON. MR. W. VINCENT.

Curator:

MR. R. NEWSTEAD, The Grosvenor Museum.

RULES.

1.—That the Title of this Society be "The Chester Society of Natural Science," and that its object be the promotion of the study of Natural Science by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2.—That the Officers be a President, Six Vice-Presidents, Treasurer, Three

Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above-named Officers, who shall be Ex-Officio Members, and Six other Members of the Society—the President or a Vice-President the Chairman; and that the practical management of the Society be vested in the Committee, subject to the following Rules:—

4.—That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee, previous to a General Meeting.

5.—That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life

Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five,

7. – That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8. -That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year.

9.—That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10. -That the Committee shall meet monthly for the despatch of business;

Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No Paper shall be read without the previous sanction of the Committee. Objects of scientific

interest may be exhibited at the Evening Meetings.

13.—That at the Annual General Meeting, which shall be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six Days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

In presenting the Seventeenth Annual Report of the Chester Society of Natural Science, the Committee have the pleasure of stating that the number of Members now on our list amounts to 619.

During the past year we have lost by death two Honorary Members-John Price, Eso., M.A., and the Rev. W. S. SYMONDS, F.G.S. Mr. PRICE was connected with our Society from its foundation, and was one of the founders of a still older Natural History Society, from which our present Society is an outcome. His loss to our Society is great. He was held in reverence by all who knew him, and his wonderful powers of observation, his retentive memory, combined with his high intellectual attainments, rendered whatever he brought before the Society a source of delight as well as profit. His Papers will be treasured even by those who had not the privilege of hearing them. As a Society we desire to record our deep respect and gratitude to one who by his genial nature drew out the trust and affection of old and young, while we hope to keep his memory green by following in his footsteps, as accurate, painstaking, and reverent students in the fields of nature.

The Society has now occupied the Grosvenor Museum for nearly two years, and has found the building admirably suited to its requirements. The new premises have certainly added immensely to the general comfort and to the efficiency of the Society. A new Section was organised after our last Annual Meeting—the Photographic Section. It has done good work during the past year, and it numbers amongst its Members many practical workers. This Section will be a source of strength to the Society, for the wonderful advance made by amateurs in this department must tell eventually on all scientific records.

The local Museum has to a certain extent been re-arranged. A large Insect Cabinet has been presented to the Society, in which there is ample space for all local species, and contributions are earnestly solicited. Many new and beautiful specimens have been added. We are indebted for much good work to our excellent Curator, Mr. R. Newstead, who will place before you his report of what has been done and the various donations we have received, for several of which we are indebted to His Grace the Duke of Westminster, Mr. A. O. Walker, Mr. Nixon, &c.

A portrait of Charles Kingsley, by Mr. Walmsley Price, was purchased by some of our Members and presented to the Society, and is now in our Museum.

The Library has been increased both by donations and purchases, and is in good order, thanks to our Honorary Librarian and to Mr. W. H. OKELL.

The Free Library of the City has also kindly placed at our disposal for circulation some of the newer scientific works, which are thus rendered available at a centre where they are fully appreciated, as is shown by the number of applications made for their use.

Great activity has been shown in the Botanical Section, which, under the new officers, seems likely to make good progress. The Society's Herbarium is being carefully arranged and put in order. The Botanical Garden in the Grosvenor Park is to be laid out afresh, but owing to the very late spring, and the continuance of snow and frost, this has been much delayed. A change in the run of the paths has somewhat curtailed the ground, but there is still sufficient space to display the principal orders, and by means of annuals it is hoped to make the borders attractive.

Our Honorary Treasurer, Mr. Mills, will read you the Balance Sheet of our Accounts, which the Committee trust will be found satisfactory to the Members.

The Honorary Treasurer to the Kingsley Memorial Fund, Mr. E. J. Baillie, will place before you the Balance Sheet of this Fund.

The general work of the Society may be summarized under the following heads—

EXCURSIONS
EVENING RAMBLES
GENERAL MEETINGS
FIELD CLASSES

SECTIONAL MEETINGS CONVERSAZIONE PRIZES

The following excursions were made in the past summer:-

	1887.
Hooton Park and Woods	June 2nd.
Vyrnwy Valley	June 24th
Storeton Woods and Quarries	July 19th.
Llangollen	July 23rd.
Botanical Gardens and Jubilee Exhibition,	
Manchester	
Eaton (with the British Association)	Sept. 8th.

The first excursion was twice deferred owing to wet weather. The excursion to the Vyrnwy Valley was on a splendid day. Fine weather and a good party. Our President and Mr. Ruppy acted as leaders, and we had the privilege of seeing one of the wildest parts of N. Wales. The aspect of the country will in a short time be entirely changed, as a large artificial lake is in process of construction with a view to the water supply of Liverpool. We spent another interesting day at Storeton, when MR. OSMUND W. JEFFS conducted the party, and pointed out the peculiarities of the Bunter and Keuper formations. Photographic Section had a special visit to Llangollen. On the whole the excursions were not well attended, but this may be accounted for by the many attractions of the Manchester Exhibition and other incidental interests connected with the Jubilee Year of Her Majesty's reign. A few Evening Rambles were arranged, and an effort was made to combine with them Field Classes. These, however, were only partially successful.

but the idea is good, and may perhaps be better carried out in the future. The Evening Entomological Class, conducted by MESSRS. R. NEWSTEAD and ARKLE, did fairly well.

The Annual Conversazione was held somewhat earlier than usual, namely, on September the 8th. This was arranged in order that our President might be with us, who was attending the Meeting of the British Association at Manchester. Association made a visit to Chester a special feature of their proceedings. The Management Committee of the Grosvenor Museum placed the whole building at our disposal for the occasion. The Art Rooms at the top of the building were utilized for the display of Microscopes, which again afforded as much interest and proved as attractive as in the old days when we had the Council Chamber at the Town Hall. The gathering in the evening was unique, and will be long remembered, owing to the presence of the many distinguished scientific foreigners, who came with the British Association. We had the privilege of electing three of them as Honorary Members-Dr. Sterry HUNT, Montreal; PROFESSOR VILLANOVA-Y-PIERA, of Madrid; and ABBÊ RENARD, Belgium. There were also present PROFESSOR STORMS, Berlin: PROFESSOR TIRKEL, Sweden: Mons. Greven, Belgium; Dr. Otto Jarell, Sweden; Mons. Lohost, Director of the Liege University; and Sir Robert S. Ball, Astronomer Royal of Ireland. There were many interesting speeches made, and our foreign friends paid us the compliment of showing the interest they took in the English language and in English thought, by addressing us in our own language. The Kingsley Memorial Medal was on this occasion presented to Mr. W. Shone, F.G.S., by our President, who spoke most highly of the Geological work done by Mr. Shone, especially in relation to the Boulder Clay of the neighbourhood. The Kingsley Memorial Prize was given to Mr. J. Lyon Denson for his Notes and Observations with respect to the Natural History of the District. The Rooms and Exhibition were kept open for a second evening, giving an opportunity for a more

thorough examination of the various exhibits, of which very many gladly availed themselves. During the evening Mr. H. ADKINS gave a short Lecture on the Falls of Niagara, and exhibited some splendid photographs.

During the past winter the following General Meetings have been held and Papers read—

1887.

Oct. 27-" Grotesque Insects," by JOHN W. ELLIS, Esq., L.R.C.P.

Nov. 24—"Paper Negatives and Stripping Films," by E. W. PARNELL, ESQ., F.C.S.

Jan. 5—"Bones of Contention in the Vale of Clwyd," by the PRESIDENT.

Jan. 28—"The Law of the Conservation of Energy and its application to

the study of Plant Life," by R. J. HARVEY GIBSON, Esq. (University College, Liverpool.)

Feb. 23—"Flame," by Dr. JAMES J. DOBBIE (University College, North Wales.)

April 26-Annual Meeting.

It will be seen that there have been six General Meetings, which on the whole have been well attended. The Lecture by Professor Harvey Gibson was one of exceptional interest on account of the originality of the views advanced and the study and observation on which they were founded. Several new names appear amongst those who have given us lectures, and our best thanks are due to all who thus come forward and take the trouble to impart to us of their stores of information.

Although the Society consists of six Sections, one Section, the Microscopic, has not met for the reading of Papers during the past winter. The Microscope is properly an aid to investigation in almost every field of Natural Science, and the Members who especially devote themselves to Microscopic work hold themselves ever ready to come forward when help is needed. The other Sections have met as follows—

1887. ZOOLOGICAL SECTION.

Nov. 3—"Notes of a Naturalist," by the Curator, MR. R. NEWSTEAD.

Dec. 15-" Review of the past Season," by Mr. A. O. WALKER, Chairman. 1888.

Feb. 9—"Holiday Notes in Scotland and Norfolk," by W. H. DOBIE, ESQ., M.B.

1887. PHOTOGRAPHIC SECTION.

Nov. 9-"Lantern Slides on Dry Plates," by MR. F. EVANS.

Dec. I-Exhibition of Negatives and Lantern Slides by the MEMBERS.

Dec. 16-"Enlarging," by MESSRS. E. W. COWAN and W. J. P. FAWCUS. 1888.

Jan. 19—"Picturesque Glimpses of Italy," by Mr. G. E. THOMPSON, Liverpool.

Mar. 3-"Light and Colour," by the REV. A. H. FISH, B.A., B.Sc.

Mar. 22-" Composition," by MR. T. WALMSLEY PRICE.

1887. GEOLOGICAL SECTION.

Nov. 10—"The Origin and Age of the World in which we live," by MR. A. W. LUCAS, F.R.G.S., Secretary.

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Feb. 16—"The Composition of the Crust of the Earth-Rocks—Igneous, Volcanic, Metamorphic, Aqueous," by Mr. A. W. Lucas, Secretary.

Apr. 12-"Colerado and Yellow Stone," by Mr. ARTHUR RIGG.

NATURAL PHILOSOPHY SECTION.

Jan. 12—"An Elementary Chapter in Astronomy, with special reference to the present so-called Star of Bethlehem," by Mr. W. VINCENT.

Mar. 15—"Explosives in Coal Mines: how Caused and how Prevented," by Mr. E. LLOYD ROBERTS.

Apr. 19—"Electrical Discoveries by Benjamin Franklin," by Mr. E. W. COWAN.

1887. BOTANICAL SECTION.

Dec. 8-"Reminiscences of the late Mr. John Price," by Mr. E. J. BAILLIE, F.L.S., Secretary.

1888.

Feb. 2-"The past and future work of the Section," by Mr. J. D. SIDDALL, Chairman.

Mar. I-"The Spring Phenomena of Plant Life," by Mr. ROBERT HOLLAND.

The Sectional Meetings have been better attended this winter than they have been for some years past. This may be partly owing to the fresh spirit which has been infused by several new Members coming forward to read Papers; and the quality of all the Papers has been very encouraging. They have been well illustrated both by specimens, diagrams, and photographs. The Photographic Section has shown its energy by meeting six times during the past winter, and by explaining and showing the working of the technical side of photography has, we think, stimulated many of our scientific friends to take an interest in

the subject. We must here mention that during the last three months there has been a change in our method of giving out the Notices of our Meetings. You are all aware that our Society is only one of the several Societies who meet in the Grosvenor Museum, and it has been thought that the labour of the different Secretaries might be economised if one Paper contained all the Notices. A small Paper called "Chester Societies" has therefore been started. It contains all the · Notices of the different Societies and such other local matter as may be of interest to those connected in any way with the Grosvenor Museum. Its price per annum is 2/6, and we call special attention to the subject, as your Committee are anxious that the plan should succeed, and that it should have the support of our Members. Those, however, who are not disposed to subscribe will have their Notices regularly on the notice sheet portion of the Paper.

Your Committee has met seventeen times during the past year to carry on the executive work of the Society, and they trust that what they have done will meet the approval of the Members. We feel now that our Society is established in so commodious a building and with a local Museum, that no effort will be wanted on the part of our Members to render it as complete as possible; and if all will try to do something during the coming year, we may hope to place our local knowledge on a firmer basis, and perhaps add in a measure some contribution to general science.

HENRY STOLTERFOTH, M.A., M.D., Scientific Secretary.

The following Photographic Papers may be found on the Library table for use of Members:—

British Journal of Photography; The Amateur Photographer; The Photographic News; The Camera;

together with various Scientific Papers and Periodicals.

CURATOR'S REPORT FOR 1887-88.

THE CURATOR has much pleasure in submitting a list of objects added to the Grosvenor Museum during the last year. They are chiefly insects and birds—many being rare, and several new to the district. All the additions belong to the following Orders-Polyzoa, Hydrozoa, and Crustacea, and have been collected by Mr. A. O. Walker, F.L.S., except the "Spiny Lobster" (Palinurus vulgaris), which was purchased from a Student at the King's School. The collection of Lepidoptera is in a very untidy condition, as most of the specimens had to be moved to allow of the drawers being fitted up with glass lids and frames. This collection will be re-arranged and spaces left for new additions. Many good species have been added, three of them being new to the district. The Coleoptera have been arranged in the beautiful Cabinet presented by MR. A. O. WALKER, and spaces are left for new additions, which will prevent any further trouble in re-arranging. MR. NIXON kindly placed at our disposal the whole of his collection of local Coleoptera, numbering about 120 species. MR. B. Tomlin and MR. A. O. Walker are working very hard for us-they are constantly bringing in new additions.

Several life histories of various injurious insects have been prepared, and prove both interesting and educational. SIR PHILIP CUNLIFFE OWEN, K.C.B., has kindly sent us down a very valuable set of diagrams, illustrating the life histories of injurious and beneficial insects, with spaces to fill up with the actual specimens. Portions of infested trees, plants, &c., will be gladly received.

Several species have been added to the Mollusca, and we are greatly indebted to Mr. B. Tomlin, not only for his additions, but also for the trouble he has taken to name and mount most of the species sent in during the past year. Mrs. McKenny Hughes and Mr. A. O. Walker have also added several new species. Nine species of fish have been added, but I regret to say that the Greater Fork-beard (Physis furcatus), presented by Mr. Parry Evans, was totally unfit for preserving, it was so bruised and almost denuded of its

scales by the children who were found playing with it. The others worthy of note are the Carp and the Perch, the former

weighed offs, the latter 1th 60z.

The following Cases, illustrating the life history of birdsall mounted with their natural surroundings-have been placed in the centre of the Museum, and prove of great interest to the general public :-

.Case No. 2 .- Swallow (Hirundo rustica.) Mounted with section of Shippon.

3.-House-Martin (Hirundo urbica.) Mounted with section of Brickwall, &c.

4.—Corncrake (Crex pratensis.) 6.-Skylark (Alauda arvensis,)

7.—Little Grebe (Podiceps minor.)

11.-Magpie (Pica caudata.)

Six other life histories of birds are now in preparation, viz., the Heron, Sparrow Hawk, Wild Duck, Starling, and Jackdaw, presented by HIS GRACE THE DUKE OF WESTMINSTER. The Heron, no doubt, will prove of great interest to the Art Student as well as to the general public. Mr. C. SMITH has obtained the Moorhen in all its stages, which will be very interesting when displayed.

Nothing worthy of note has been added to the Mammalia

except a young Otter, which was purchased.

No additions have been made to the local geological collections. In the teaching department, MR. A. W. Lucas, F.R.G.S., has partly arranged the non-local fossils, &c., in the oak cabinet presented by SIR PHILIP EGERTON, BART. The minerals have been removed from this cabinet, and arranged in the Laboratory by MR. W. F. Lowe, for teaching purposes. MR. Lowe and MR. Lucas have added several minerals of interest.

We are indebted to the following gentlemen for the loan of books to name the various specimens sent in:-MR. A. O. WALKER for "Spry and Shuckard, Rye and Cox's Vols. I. and II. on Coleoptera": MR. THOS. SHEPHEARD, "Morris's British Birds"; Dr. Stolterfoth, for "Miss Ormerod's Injurious Insects"; and Dr. H. Dobie for "Anatomy of Birds, &c., by Prof. Beddard."

The skeletons of the Frog and Crayfish have been mounted, the parts being named for the use of Students in Biology.

LIST OF ADDITIONS.

RHIZOPODA, HYDROZOA, POLYZOA, ECHINODERMATA, CRUSTACEA. &c.

By Mr. A. O. Walker-Orange Sponge Garveia nutans Lafoea Coppinia arcta . Bicellaria ciliata Campanalaria flexaosa verticellata Scrupocellaria cruposa Calycella syringa Pagurus cuanensis Hymeniacidon subereus Porcellana platycheles Halecium Beanü Malmgrenia castanea from Astropecten irregulare Ebalia Pennantii (Leach)

By Mr. A. O. Walker-Ebalia tumefacta Porcellio scaber (Latr) Portunus arcuatus Portumnus latipes Oniscus asellus Ophiura albida Aglaophenia pluma (Linn) Obelia geniculata (Linn) longissima Alcyonium digitatum Hippolyte varians Cucumeria pentactes Idotea tricuspidate Bugula turbinata Bowerbankia imbricata

ORTHOPTERA.

.. By Mr. A. O. Walker, F.L.S. 2 Species...

HYMENOPTERA (Bees.)

3	Bombus lapponicus	 By Mr.	A. O. Walker
3	Megachile circumcincta and cells	 11	J. Lyon Denson
2	Bombus senilis	 22	R. Newstead

LEPIDOPTERA (Moths and Butterflies.)

.. By Mr. J. Arkle

2 Aspilates strigillaria*

Fidonia piniaria

Eucosmia undulata

4 Epinephele tithonus	 ,,	
2 Polia chi	 •• ,,	17
I Lithosia complanula	 •• ,,	A. O. Walker
t Bombyx quercus	 "	J. Lyon Denson
By Mr. R. Newstead—	By M	Ir. R. Newstead—

Number of Specimens.

I Pieris napi (var.)

6 Chelonia caia ...

Number of

- 6 Lycana Ægon
- Cænonympha davus Thecla rubi

Ellopia fasciaria

^{*} New to district.

LEPIDOPTERA-Continued.

By Mr. R. Newstead-By Mr. R. Newstead-Number of Specimens. Number of Platypteryx falcula Charæas graminis Macaria liturata Tryphæna Ianthina dark (var.) Leucania phragmitidis Pacilocampa populi Nonagria typhæ Euthemonia russula Hydræcia micacea Amphiphyra tragopogonis İ Arctia fuliginosa Thyatira batis Cirradia xerampelina ĭ Xanthia cerago Acronycta Psi 6 Apamea unanamis 2 Cosmia trapezina Dasypolia templi Apamea nictitans Aplecta nebulosa Anchocelis lunosa Macreglossa stellatarum 6 pistacina Dicranura vinula Phygalia pilosaria Scopelosoma satelletia Cymatophora duplaris Plusia chrysitis *flavicornis* Mamestra furva Nyssia hispidaria* Anarta myrtilli Series Hybernia leucophearia (dark vars.) Noctua plecta Tæniocampa cruda (var.) Hybernia progemaria defoliaria Agrotis porphyrea 2 Hadena proteus rupicapraria T Cidaria testata Chimatobia brumata IO Epione Apiciaria Life History of Phygera 4 Cidaria russata bucephala Halias prasinana Ennomos tiliaria Crocallis elinguaria Noctua xanthographa By Master Alured Williamsrubi I Larva of Acronycta leporina Himera pennaria Gonopteryx libatrix

COLEOPTERA (Beetles.)

By Mr. A. O. Walker—

By Mr. Nixon, Manley, Cheshire-

	Caraba hemorais		Omaccan revalue
I	,, granulatus	4	Anthicus floralis
	., catenulatus	3	Apion ulicis
2	Harpalus ruficornis	I	Thyamis lurida
1	Liopus nebulosus	I	" fuscicollis
I	Cryptorhynchus lapathi	85	Other species.
4	Serica brunnea	,	*
IIO	Other species	By I	Mr. B. Tomlin-
	•	1	Demetrias atricapillus
By I	Mr. A. O. Walker—	I	Aphodius rufipes
	Rhagium bifasciatum	2	,, conspurcatus
1	Blaps mucronata	1 4	, scybalarius
I	Chrysomela gættingensis	5	Ægialia arenaria
1	" sanguinolenta	6	Elater balteatus
I	Timarcha lævigata	8	other species
6	Alenchara fuscibes	1	

^{*} New to district.

COLEOPTERA-Continued.

By Mr. J. Arkle— Number of Specimens, 2 Blaps mucronata

D M I I D

By Mr. J. Lyon Denson—

Larvæ and imagines Tenebrio

molitor

3 other species

By Mr. John Rowe Dutton—
2 species

By Mr. R. Newstead—

I Geotrupes typhæus
I Liodes humeralis

I Choleva cisteloides

,, fusca

1 Corymbites cupreus
1 Malthodes marginatus

2 Edemera lurida

3 Oncomera femorata 116 other species

MOLLUSCA (Shells.)

By Mr F. Archer— Acmaea testudinalis*

By Mrs McKenny Hughes— Donax vittatus Tellina fabula ,," tenuis Philine aperta Scrobicularia alba Ceratisolen legumen

By Mrs. Gardner—
Solen ensis
Acteon tornatilis
Dentalium entale
Spirula Peronii (portions only, taken
by the Donor)
Natica catena
Venus gallina
Cypraea europæa
Velutina laevigata

By Mr. A. O. Walker
Utriculus obstusus
Hydrobia ulvae
Buccinum undatum (fry)
Natica alderi
Maetra subtruncata
Corbula gibba
Bela turricula
Nucula nitida
Helcion pellucidum
Astarte sulcata
Mactra stultorum (vax. cinerea)
Venus ovata

By Mr. B, Tomlin— Gibbula umbilicata Littorina obtusata Venus exoleta Vitrina pellucida Succinea elegans Hyalinia cellaria , nitidula ,, crystallina

Helix aculeata
,, caperata

,, aspersa ,, nemoralis

Pupa (Pupilla) marginata
Buliminus obscurus
Vertigo edentula
Clausilia rugosa
Cochlicopa tridens
, lubrica

Carychium minimum Amalia marginata Limax maximus

Mr. Thos. Shepheard— Bythinia tentaculata

Mr. Nixon—
Succinea putris
Hyalinia alliaria
Helix arbustorum
3 other species

Mr. Dean, Mollington—Anodonta cygnea†

^{*} New to district.

^{*} This is a magnificent specimen, measuring 92 inches in length, 11 inches in diameter.

PISCES (Fish.)

Number of

ecimens.

I Carp (Cyprinus carpo) Purchased Number of Specimens.

By Mr. John Guy, Boughton-I Perch (Perca fluviatilis)

By Mr. A. O. Walker-

I Angler or Devil Fish (Lophis piscatorius)

By Mr Vincent-

1 Angler or Devil Fish (young) (Lophis piscatorius)

By Mr. A. O. Walker-

I Basse (Labrax lupus)

2 Roach (Leuciscus rutulis) 2 Bream (Abramis brama)

Ruffe (Acerina vulgaris)

Conger Eel (Conger vulgaris)

AVES (Birds.)

By Mr. A. O. Walker-

Forktail Petrels (Thalassidroma Leachii)

Longtail Duck (Herelda glacialis) Golden Plover (Charadrius

pluvialis)

Peregrine Falcon (Falco peregrinus)

Ringed Guilemot (Uria lacry-

mans, Valenc) Ruddy Shieldrake (Tadorna

rutila) Chaffinches (Fingilla cælebs)

Ammer (Emberiza Yellow citrinella)

Corncrake (Crex pratensis) Wild Ducks (Anas boschas)

Brown Linnets (Linaria can-

Sparrow Hawk (Accipiter nisus) Hawfinch (Coccothraustes vul-

garis) Great Grey Shrike (Lanius

excubitor) Night Jar (Caprimulgus europ-

Young Winchats (Pratencola ruberata)

Skylark (Alanda arvensis) Merganser (Mergus serrator)

By Col. P. G. Davies-Cooke-Dark var. of common Grouse (Lagopus scoticus)

Ring Ouzels (Turdus torquatus) Common Buzzard (Buteo vul-

garis)

By Dr. W. H. Dobie-Sandpiper 1 Curlew subarquata)

Sanderlings (calidris arenaria)

By Mr. Porter, Colwyn Bay-

Teal (Querquedula crecca) Wimbrel (numenius phæopus)

(Phalacrocorax - Cormorant cristatus)

Oyster Catcher (Hæmatopus ostralegus)

(Squartarola Plover Grey helvetica)

By Alderman Charles Brown-I Gold-crested Wren (Regulus cristatus)

By Mr. John Lyon Denson-2 Swifts (Cypselus apus)

By Mr. Newstead, Sen., Ince-Corncrake 1 Female

pratensis) and 5 young Swallows (Hirunda rustica) Martins (Hirundo House

urbica), with their nests and

By Mr. T. J. Dutton-

Kestrel Hawk (Falco tinnunculus)

Little Grobes (Podiceps minor)

By Mr. Cecil Smith, Blacon Point-I Brambling Finch (Fringilla montafringilla)

Lapwing (vanellus cristatus) Grey Wagtail (montacil (montavilla sulphurea)

By Miss Bretherton-I Wild Duck (Anas boschas)

By Master Siddall-I Lesser Redpole (Linotalinaria)

AVES-Continued.

By Mrs. Tomlin-

2 Rooks (Corvus fragilegus)

By Master Shepheard-I Barn Owl (Strix flammea)

By Exchange-I Short-eared Owl (Otus brachyotus)

Purchased-

Little Grebes (Podicets minor)

Bald Coot (Fulica atra)

Purchased. Number of Specimens.

Bar-tailed Godwits (Limosa

Kingfishers (alcedo ispida)

Oyster Catcher (Hamatopus ostralegus)

Sanderling (calidris arenaria) Curlew Sandpiper (Tringa

subarquata) Black-breasted Purr (Tringa

alpina) Water Rail (Rallus aquaticus)

Dipper (Cinclus aquaticus)

NESTS AND EGGS.

By Mr. S. J. R. Dickson-Nest and Eggs-Long-tailed Tit Chaffinch

By Mr. J. Lvon Denson-Nest and Eggs-Long-tailed Tit

By Mr. A. O. Walker-Nest and Eggs-Chaffinch Starling

By Mr. A. O. Walker-Nest and Eggs - Blackbird Yellow Ammer

By Master W. Siddall-Nest and Eggs-Gold Crest Wren

By Col. B. G. Davies Cooke-Nest and Eggs-Ring Ouzel

MAMMALIA (Animals.)

By Mr. J. Lyon Denson-Hedgehog (Erinaceus Europæus) Moles (Talpa Europæa)

By Mr. Cecil Smith White Var of Stoat (Mustela erminea)

By Master Siddall-Stoat (Mustela erminea)

By Mr. T. Shepheard-I Field Vole (Arvicola agrestis) By Mr. Newstead, Senr., Ince-

Great Bat, and young (Scotophilus noctulæ)

Long-eared Bat (Plecotus auritus)

Common Bat (Scotophilus pipistrellus)

Purchased-

I Otter (Lutra vulgaris)

GEOLOGY AND MINERALOGY.

By Mr. A. W. Lucas-

1 Auriferous & Argentiferous Lead Ore Gold Ores

Box Chloride of Silver

Silver Ores 10 Agates (broken)

For teaching collection. Borax (native) Copper

By Mr. W. Shone-

5 Footprints of Labyrinthodon

By Dr. Stolterfoth-

r Fossil Shells (recent)

Purchased-

t Crinoid (Mountain Limestone)

^{***} All additions are local except the Minerals.

MISCELLANEOUS.

By Mr. A. O. Walker— Several dozen glass-topped Boxes Insect Cabinet (24 drawers) Label List British Coleoptera

By Mr. W. Shone— Large Glass Shade Geological Diagrams Wood Trays. 8 Charts and Sections of the River Dee, with Report of ditto By Mr. Thos. Shepheard— 15 Packets of Labels

By Mr. W. H. Okell— Box Parchment Labels

Dr. Stolterfoth— Label List of British Marine Shells

ABSTRACT OF NUMBER OF SPECIES.

					Presented.	Pur- chased.	Total.
Rhizopoda, Hydrozoa, Po	lyzoa	, Echin	oderm	ata,			
Crustacea, &c.					30		30
Orthoptera					2		2
Hymenoptera (Bees)					3		. 3
Lepidoptera (Moths and)	Butte	rflies)			68		68
Coleoptera (Beetles)					364		364
Mollusca (Shells)					56		56
Pisces (Fish)					7	I	~ 8
Aves (Birds)					44	10	54
Vests and Eggs							9
Mammalia (Animals)					9 8	1	
Geology and Mineralogy				• •	25	I	9 26
TOTAL					616	13	629

R. NEWSTEAD,
CURATOR.



The Hon, Treasurer in Account with the Chester Society of Natural Science, for the Year ending April 30th, 1888.

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JUNE 5TH, 1888—Examined and found correct, shewing a balance in the hands of the Treasurer of One Pound Eleven Shillings and Sevenpence Half-penny. J. ROWE DUTTON, HON. AUDITORS. W. VINCENT,

"KINGSLEY" MEMORIAL FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1888.

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APRIL 25TH, 1888—Examined and found correct,

W. VINCENT,
Hon. Auditor.

EDMUND J. BAILLIE, ON. TREASURER.

KINGSLEY MEMORIAL PRIZES.

Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition, and which have already been advertised in local and other newspapers:—

1888.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above, the Committee have decided that, in order to encourage scientific research, they will make grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

The Collections, Essays, or Notes of Observations may be sent in to either of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.-The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

Intending Competitors should obtain all particulars, and the conditions under which the Prizes are offered, from either of the General Secretaries of the Chester Society of Natural Science; and all Collections, &c., must be sent in to either of them on or before the 1st September in each year.

The Prizes will be awarded at the Annual Conversazione.

SOCIETIES ASSOCIATED,

WITH WHICH THE SOCIETY EXCHANGES PUBLICATIONS.

Academia Nacional de Ciencias De La Republica, Argentina, Cordoba.

Barrow Naturalists' Field Club.

Brighton and Sussex Natural History Society.

Bristol Naturalists' Society.

Burnley Literary and Scientific Club.

Cardiff Naturalists' Society.

Cassel Society of Natural Science.

Dudley and Midland Geological and Scientific Society and Field Club.

Epping Forest and County of Essex Naturalists' Field Club Glasgow Natural History Society.

Hertfordshire Natural History Society and Field Club.

Huddersfield Naturalists' Society.

La Société d'Histoire Naturelle de St. Wladimir à Kiew, Russie.

Leeds Naturalists' Club.

Liverpool Geological Society.

Liverpool Geological Association.

Liverpool Literary and Philosophical Society.

Liverpool Miscroscopical Society. Liverpool Naturalists' Field Club.

Liverpool Science Students' Association.

Manchester Field Naturalists' Society.

Manchester Geological Society.

Manchester Microscopical Society.

Manchester Scientific Students' Association.

Menai Society of Natural Science.

Northampton Natural History and Field Club.

North Staffordshire Naturalists' Field Club and Archæological Society.

Nottingham Naturalists' Society.

Postal Microscopical Society.

Quekett Microscopical Club.

Rochdale Field Naturalists' Society.

Smithsonian Institution, Washington, D.C.

United States Geological Survey.

Vienna Natural History Museum.

Wigan Literary and Scientifie Society.

HONORARY MEMBERS.

HONORARY MEMBERS.
Those marked (*) have read or contributed Papers at the Society's Meetings.
Archer, Frank, Esq., B A14 Cook Street, Liverpool Brady, H. Bowman, Esq., F.R.S., F.L.S.,
F. G.S
*Dawkins, W. Boyd, Esq., M.A., F.R.S., F.G.S., F.S.A
De Tabley, The Right Hon. Lord Tabley House, Knutsford *Hicks, H., Esq., M.D., F.R.S., F.G.S., Hendon Grove, Hendon, London,
*Higgins, Rev. H. H., M.A. 20 Falkner Square, Liverpool
Hooker, Sir J. D., F.R.S
Huxley, Prof. T. H., LL.D., F.R.S.,
PH.D., F.L.S., F.G.S. 4 Marlborough Place, London, N.W. *Judd, Prof. J. W., F.R.S. Science Schools, South Kensington, London, S.W.
Kingsley, Mrs
&c
*Morton, G. H., Esq., F.G.S 209 Edge lane, Liverpool, E. Norman, Rev. A. M., M.A., D.C.L., F.L.S Fence House, Durham
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NOTICE.

THE ANNUAL SUBSCRIPTIONS are due on the 1st of May in each year. Members who have not paid for the present year are respectfully requested to forward the amount (Five Shillings) to the Hon. Treasurer, MR. JOHN MILLS, Chemist, Eastgate Row.

To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary, according to Rule 8.

LIST OF MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

Acheson, Rev. I. H., M.A. Cambrian View

Ticheson, Icore J. III, Milital	
Acheson, Mr. Maurice	• ,, ,,
Acheson, Mr. Guy H	. ,, ,,
*Acton, Mr. T. Bennion	.Grove road, Wrexham
Adams, Mr. Beresford	
Adams, Mr. Geo. F	, Brighton villa, Saughall road
Alletson, Mr. W	. Oakenholt, Flint
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Avery, Mr. John	.71 Bouverie street
Avrton, Mrs.	.Abbot's Rock, 33 Liverpool road
Ayrton, Mr. Alfred G	-
	* 33 33 97
AD. W. AC D. T. D.T.C.	317 11.' TY . 1
*Baillie, Mr. E. J., F.L.S.	
Baillie, Mrs. E. J.	
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Baker, Miss	
Ballard, Mr. E. G	
Ballard, Mrs	. 22 22
Barker, Mr. A	6 Abbey street
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Barrett, Mrs. W. F	,, ,,
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Bassett, Miss C. E	. 68 Northgate street
Baxter, Mr. Geo	
	. 17 20

*Bedford, Rev. J. L., M.A., F.J	S to Abbey square
D 10 1 35	
Bernard, Mr. John	17 City walls
Beswick Mrs Harry	17 Victoria pathway, Queen's park
Bewley, Mr. J. A	The Watergate
Birch, Mr. H. J.	Corville Tivernool road
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Playney Mrs A	2 City wans, w.
Placed Mr. Marmadula	Slaidburn, Yorkshire, via Clitheroe
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Brayshaw, Mr. E. C.	4 Crane street
Brewer, Miss E	
Broadbent, Mrs.	
Brown, Miss	144 Boughton
Brown, Mr. C.	The Folly, Flookersbrook
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Bullin, Miss E	· · · · · · · · · · · · · · · · · · ·
Butt, Miss	
Butte, Miss	7 Short place, Garden lane
Campbell, Rev. E. A. Pitcairn	MA IP Vicar's Cross
Carrington, Mr. A.	To White friend
Catherall Mr T	Holly bank Ougan's nark
Catherall, Mr. T	10 Torrin road
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Clayton, Mr. Albert	28 Hough groon
Clemence, Mr. S	2 Chichester street
Clough, Miss	
Clough, Mr. G. F.	Tr Panner street
	26 Lightfoot street, Bishopsfield
Coe, Mr. Henry J.	
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Cominge, Int. James.	Lemmerton Louge, Chester

Comber, Mrs. E.	Holly Bank, Christleton
Connob Mr los De 1.31	orginery, Somerset House, London, W.C.
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Cordery, Mr. J	Liverpool road
Condows Miss C	70 Roughton
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*Cowan, Mr. E. W., A.M.I.C.E.	VICTORIA TION WORKS
*Cowap, Mr. C. R.	22a Cambrian view
Cummings, Miss	Aing's .buildings
Darby, Very Rev. J. L., D.D	The Deanery
Davey, Mr	Brighton terrace
Davey Mrc	,
Davey, Mrs. Davies-Colley, Dr. T., J.P	Newton Cottage, near Chester
Davies Colley, Dr. 1., J.1	recurrent oottage, men on the
Davies-Colley, Mrs. Davies-Colley, Miss E. C. Davies, Miss Henrietta	" "
Davies-Colley, Miss E. C.	60 Daughton
Davies, Miss Henrietta	og Boughton
Danies Wir H. Henry	10 Francis street
Davies, Mr. J	Parr's Banking Co., Eastgate street
Davies, Mr. John	Parr's Banking Co., Eastgate street
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Davies, Mr. James	20 St. Affile's place
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Denson Mr W	21 Upper Northgate Street
Denson Miss Adelaide	,, ,, ,,
Denson, Mrs. W Denson, Miss Adelaide Denson, Mr. J. Lyon	11 27 77
Denson, Mr. J. Lyon Denson, Mr. T. F. Denson, Mrs. T. F. Dickson, Mr. F. A., J.P.	8 Church street
Denson, Mr. 1. F.	6 Church street
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Dickson, Mrs. F. A. Dickson, Miss A. Dickson, Mr. Geo. A., J.P.	33 . 33
Dickson, Miss A	G * C 71 TH -11-
Dickson, Mr. Geo. A., J.P	Springheld, Flookersbook
Dickson, Mrs. Geo. A. Dickson, Miss Lavinia Dickson, Mr. Jas.	22 22
Dickson, Miss Lavinia	27 27
Dickson, Mr. Jas	Brookfield House, Chester
Dickson, Mr. W. A	Newton villa, Chester
Dickson, Mr. S. L. R.	Mayneid House, mode
*Dobie, Dr. W. M	23 Upper Northgate street
Dobie Miss	" " "
Dobie, Miss *Dobie, Mr. W. H., M.B	22 Upper Northgate street
Dod, Rev. C. Wolley, M.A., J.P.	Edge Hall, Malpas, Chester
Ded Miss Wolley	, Eugo,,
Dod, Miss Wolley Dodd, Mr. W.	TA2 St : Anne street
Dodd, Mr. W.	Torne street (North)
Dodds, Mr. John Droughton, Mr. Jerome Drury, Mrs.	An Wiston street Roughton
Droughton, Mr. Jerome	Alberta fold Tivornool road
Drury, Mrs.	Abbot's held, Liverpoor load
Drury, Mr. R Dugdale, Mr. John	Cultal Cald Daughton
Dugdale, Mr. John	Spital neid, Boughton
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Dutton, Mr. George	. 13 Curzon park
Dutton, Mrs	• 33
Dutton, Mrs Dutton, Mrs. G. W	, 15 Curzon park
Dutton, Mr. H. B.	Freshfield, 27 Curzon park
*Dutton, Mr. F. V	.9 Eaton road
Dutton, Mr. Chas., J.P.	
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*Edwards, Mr. J. W. P	133 Boughton
Edwards, Mrs. J. W. P	133 Boughton Abbot's Mount, Liverpool road 74 Foregate street Parkgate road
Edwards, Mr. J. E., J.P	Abbot's Mount, Liverpool road
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Enock, Mrs. C. R	
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Ewing, Mr. C. A.	Newgate street
Ewing, Miss	Golden Grove Hoole road
Ewing Miss L	Golden Grove, 1100ic 10ad
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Farmer Mrs	Ditericy, Diook lane
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*Fawcus Mr. W I P C F	Victoria Tron Works
Feilden Miss	Mollington Hell Charter
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*Fish, Rev. A. H., B.A., B.Sc. Fleet, Mr. H.	(Lond.) ,,
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*Fletcher, Mr. P. H.	. woodbrae, Curzon park
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Fletcher, Miss	·
Fluitt, Miss	. Grey mars
Frater, Mr. G	.3 Lorne street
Frater, Mr. Jas	·
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Frith, Mr. Philip J.	.21 Tarvin road
Frith, Mr. Jas. N.	·
Fromont, Mr. W. H.	. 15 Tarvin road
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Frost, Lady Frost, Mr. J. M.	" "
Frost, Mr. J. M	.Dee Lodge
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Gardner, Miss	
Gardner, Miss E. F.	* **
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Golder, Mr. S.	Nicholas street
	. Tricholas street

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Gorst, Miss Graham, Mr. Jas.	Spring villa, Liverpool road
Graham Mr. Tas.	, 36 King street
Graham, Mrs	93
Graham, Mr. Harold J.	
Casham Mice	Cambrian view
Graham, Mr. Harold J. Graham, Miss. *Granger, Mr. F. M., M.R.C.S.,	R C.P.T 18 Nicholas street
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Grantham, Rev. H. Green, Mr. T. E. Green, Mr. B. W.	. Dridgegate House
Griffith, Mr. G. K.	. 30 Hough green
Griffith, Mrs. G. R.	. ,, ,,
Griffith, Miss	. ,, ,,
Griffith, Mr. N. de B	. 22 _ 23
Griffiths, Mr. Inc	.Upton park
Griffiths, Mrs. John	, ,,
Griffiths, Mrs. John	5 Hough green
Griffithe Mice	. 42 Watergate street
Griffiths, Miss	
Griffing Mr. 1. Italici, D.11.	* * * * * * * * * * * * * * * * * * * *
Griffiths, Mr. John *Grocott, Mr. E. A.	or White friers
*Grocott, Mr. E. A	18 The Groves
Grundy, Miss	Dimensysfield Tivernool road
Gunton, Miss	. Rimmersheid, Liverpoor road
TI-inima Du W	Sr Foregate street
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Hankey, Miss C. M	. , ,,
Hanmer, Mr. F.	.Bridge street
Hardy, Mrs.	,,
Harrison, Miss	. 20 Lorne street
Harrison Mrs Ino	
Harrison, Mr. N. Harrison, Mrs. N.	Highfield, Curzon park
Timinan Mrs N	
Haswell, Mr. Geo. W	Parkgate road
Haswell, Mr. Geo. W	to Pathway Oueen's nark
Henderson, Mr. J. E Henderson, Mr. Wm	I Thion walk
Henderson, Mr. wm	6 Poursonio street
Henry, Mr. R. G.	05 Douvelle street
Henshaw, Mr. J	Eughaston vina, Drook lane
Hanchaux Mice Florence M	
Honnal Mice	2 Exton park
Herne, Colonel	Delamere House, Liverpool road Abbey House, Northgate street
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Higgins Miss Millie	
Higgins, Miss Millie	St. Martin's-in-the-fields
Trianget May	14 Hough green
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Hignett, Mrs. I. H	Okeford Rampton N Devon
Hincks, Mr. J. W	or Northgate street

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Hobday, Mr. E	,,
Hobday, Mr. Jas. *Hodges, Mr. W.	22 The Groves
*Hodges, Mr. W	31 Hough green
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Horabin, Mr. T.	16 Newgate street
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Hostage, Mrs. Geo. B	
Hostage, Miss	., 22 Eaton road
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Hughes, Mrs	80 Foregate street
Humberston, Miss	Newton Hall, Chester
Hutchings, Mr. W. M	Everslev park
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Jackson, Miss	21 Hough green
Jacob, Rev. Joseph	Whitewell Rectory, Whitchurch (Salop)
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Johnson, Mr.	St. Paul's School, Boughton
*Johnson, Mr. M., L.D.S.I	. o York villas, Lorne street
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Jones, Miss Maggie	. I King's buildings
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Iones, Miss S. H	. Kingston House, Liverpool road
Jones, Mr. A. W	
Iones, Mrs. A. W.	
Jones, Mrs. A. W. Jones, Miss	
, , , , , , , , , , , , , , , , , , , ,	The Northgate
	The Northgate
Keartland, Miss	
Keartland, Miss Keeling, Miss Alice	2 Egerton terrace, Hoole road
Keeling, Miss Alice	2 Egerton terrace, Hoole road 18 Upper Northgate street
Keeling, Miss Alice	2 Egerton terrace, Hoole road 18 Upper Northgate street Trinity street
Keeling, Miss Alice Kelly, Miss Nellie Kenyon, Dr. King, Dr.	2 Egerton terrace, Hoole road 18 Upper Northgate street Trinity street Flookersbrook 18 Newgate street
Keeling, Miss Alice Kelly, Miss Nellie Kenyon, Dr. King, Dr.	2 Egerton terrace, Hoole road 18 Upper Northgate street Trinity street Flookersbrook 18 Newgate street
Keeling, Miss Alice Kelly, Miss Nellie Kenyon, Dr. King, Dr.	2 Egerton terrace, Hoole road 18 Upper Northgate street Trinity street Flookersbrook 18 Newgate street
Keeling, Miss Alice Kelly, Miss Nellie Kenyon, Dr. King, Dr.	2 Egerton terrace, Hoole road 18 Upper Northgate street Trinity street Flookersbrook 18 Newgate street Tachbrook Mallory, Leamington

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Kinsey, Mr. T. E. Morris Westminster buildings
Kirkpatrick, MrsAsh Grove
Knowles, Mr. E. RGrosvenor street
IXHOWICS, III. E. IC.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Lloyd, Mrs. E24 Eaton road
Lloyd, Miss M. E20 Lorne street
Lloyd, Mrs. E 24 Eaton road Lloyd, Miss M. E 20 Lorne street Lockwood, Mr. T. M., F.R.I.B.A 80 Foregate street
Lowe, Mr. W. F., A.R.S.M., FI.C., F.C.S. 21 Granville road, Cambrian view
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*Lowe, Mr. W. F., A.R.S.M., \ ar Granville road Combridge view
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Manning, Miss Edith18 Upper Northgate street
Manning, Miss Lilian, ,, ,,, Marsden Miss Grosvenor park road
Marsden, Miss E, ,, ,,
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Martin, Mr. E
Mason, Mr. F. B 3 Lorne street, North
Zizason, zizi z i zi, , , , , , , , , , , , , ,
Massie Admiral 2 Stapley place
Massie, Admiral
Massy, Miss
Massy, Miss Mansfield lodge, Hough green McEwen, Mrs. 26 Nicholas street *McKerchar, Mr. J. 35 Giesbach rd., Upper Holloway, London, N. Milligan, Miss Janet Sealand *Mills, Mr. John 4 Eastgate row Mills, Mrs. John " *Mills, Mr. G. P. 27 Chichester street Miln, Mr. G. " Minshull, Mr. E. The Northgate

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Moreton, Mr. J. E., F.R.C.S.	larvin
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Morris, The Rev. Canon, D.D.	Eaton, Chester
Morris, Mr. Chas	Dedlester rear Charter
Morton, Mr. G	Dodleston, near Chester
Mulhern, Mr. R.	45 Frougham Street
Muller, Framein Anna	c/o Mr. Minshull, The Northgate
Munns, Mr. J.	To repper street
Novell Mr. A Thurman	Stafford House, Bridge street row
*Newstead, Mr. R	The Grosvenor Museum
Nicholson, Mr. J. M.	Little Sutton, Chester
Nichols, Mr. G. F.	12 Chichester street
14101013, 2211 01 21 111111111	••••
*Okell, Mr. W. H	I Northgate street
*Okell, Mr. E. W	22 Northgate street
Okell, Miss	6 Curzon park
Okell, Miss M. H.	TO CHILD PART
Okell, Miss J	The Cross
Oldfield, Mrs.	. 68 Northgate street
Oldfield, Miss	. Bryn Clwyd, St. Asaph
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Parry, Mr. Gilbert	Farndon Hall, Chester
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Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. H. G. Phillipson, Mr. J. Tindal, B.A Pike, Mr. Horace G.	·· , , , , , , , , , , , , , , , , , ,
Phillipson, Mr. J.	12 Liverpool road
Phillipson, Mr. H. G.	** 99 99
Philipson, Mr. J. Illidai, D.A.	Fredcham street
Pinches, Mr. Richard	o Rlack friers
Podmore Mice	2 Fastern nathway Queen's nark
Porter Mrc	Crowthorne Childer Thornton
Potts Mr C W	3 Eastern pathway, Queen's park Crowthorne, Childer Thornton Heron bridge
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Potts, Mr. T T	Thorn Tree House, Chester road, Macclesfield
Powell, Mr. E.	Fastgate row
Powell, Mrs	Springfield, Neston
Powell, Mr. T. J.	14 Newgate street
Preston, Mr. F. M.	14 Newgate street Abbot's Grange, Liverpool road
Price, Rev. Elis	56 Watergate street
Price, Mr. Paul	Bryntirion, Chichester street
*Price, Mr. Walmsley	26 Watergate row
Price, Mrs. Walmsley	27 27
Prichard, Mr. Geo	10 St. John's road, Queen's park
Prichard, Miss	***

Puget, Miss Louisa Du	Fernville, Curzon park
Pulling, Mr. Edward, B.A	Victoria Iron Works
Pye, Mr. Jas.	Clovelly House, Eversley park
*Pye, Mr. T. E	Victoria Iron Works Clovelly House, Eversley park Commercial Gas Co., Stepney, London, E.
*Ramsden, Mr. W.	Cheshire Observer, Eastgate row (North)
Rayner, Miss	Ash Grove, Wrexham road
Ray, Miss	3 Eastern pathway, Queen's park
Reade, Mr. Albert Wm	II I orne street
Reade Mr Walter	Doine street
Rhodes Mrs	York villas, Liverpool road Courant Office, Northgate street
Richmond Mr G R	Courant Office Northante street
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Roberts, Miss Annie	14 Stanley place
Roberts, Miss M	8 Nicholas street
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Roberts, Mr. Hugh	
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		Boletin de la Academia Nacional de Ciencias en Cordoba (Republica Argentina), 6 Parts
		Henry Draper Memorial, Second Annual Report of the Photographic Study of Stellar Spectra, conducted at the Harvard College Observatory, U.S.A. 1888
		Hincks (T.) A History of the British Hydroid Zoophytes
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EIGHTEENTH

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AND

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MR. R. NEWSTEAD. The Grosvenor Museum.

RULES.

1.-That the Title of this Society be "The Chester Society of Natural Science and Literature," and that its object be the promotion of the study of Natural Science by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2.-That the Officers be a President, Six Vice-Presidents, Treasurer, Three

Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3. - That the Committee consist of the above-named Officers, who shall be Ex-Officio Members, and Six other Members of the Society-the President or a Vice-President the Chairman; and that the practical management of the Society he vested in the Committee, subject to the following Rules :-

4.—That every Candidate for Membership shall be proposed and seconded General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee previous to a General Meeting.

5. -That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life

Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five.

7.—That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8. - That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year. 9.-That a majority of two-thirds present at any General Meeting shall have

the power of expelling any Member whose conduct they deem objectionable.

10. - That the Committee shall meet monthly for the despatch of business; Five Members to form a quorum.

11. - That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No Paper shall be read without the previous sanction of the Committee. Objects of scientific

interest may be exhibited at the Evening Meetings.

13 .- That at the Annual General Meeting, which shall be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six Days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

Your Committee have the pleasure of placing the Eighteenth Annual Report before the Society. The number of our Members amounts at present to 617, and the interest shown generally in the work of the Society has increased, as the scope of the work has extended. In the early days of the Society we were content with three Sections, now there are seven with the prospect of an eighth in the coming year. This is a step in the right direction for we wish as far as possible to include all those who are advancing the interests of Education. Each Section has brought as it were fresh life and new ideas amongst us, and it has been found that all subjects included under the head of Natural Science have tended wonderfully to illustrate one another. So far this is a very hopeful state of things, but in these days of competition, we must never forget that to know one thing well is infinitely better than imperfect knowledge on many heads. One subject or pursuit thoroughly mastered is the very best introduction to the taking up of any fresh study, as it will have imparted a strength and steadiness to the mind which is never attained by dilettante work.

It has been a source of much satisfaction to your Committee that during the past year the debt on our present Building has been entirely wiped out through the kindness and liberality of some of our Members, and we can now look forward with satisfaction to some increase of accommodation.

Our local collections during the past year have quite outgrown the room appropriated to the specimens. Excellent work has been done in this department, and we are largely indebted to our Curator, Mr. R. Newstead, who, by his ability, tact, and knowledge, has proved to us that we have the right man in the right place. The details of all that has been done will be furnished in the Curator's Report, but the Committee

wish to place on record, their best thanks to HIS GRACE THE DUKE OF WESTMINSTER, MR. A. O. WALKER, and others, for their many gifts and the valuable assistance they have rendered during the past year.

The Library is in good order, and the Books so kindly lent by the Free Library Committee have again proved most useful to Students.

The Honorary Treasurer, Mr. Mills, will place before you the Balance Sheet of our Accounts, and it is hoped that the Members will find that the money of the Society has been wisely and judiciously spent.

The Account of the Kingsley Memorial Fund will be given by the Honorary Treasurer, Mr. E. J. Baillie.

The various means used by the Society for carrying on its work we place, as on former occasions, under the following heads—

Excursions
Evening Rambles
General Meetings
Classes for Instruction

SECTIONAL MEETINGS CONVERSAZIONE PRIZES

The Excursions during the past summer were to the following places:—

	1000.
Eaton Park Fête	May 21st.
Dolgelly	
Ince, Ellesmere, &c	July 11th, postponed to Sept. 11th.
Mow Cop and Moreton Old Hall Gresford and Alun Valley	

EVENING RAMBLES.

WavertonMay 31st.
Broughton June 7th.
Sealand RoadJune 14th.
Delamere June 28th.
Upton and Newton Nurseries July 19th.
Brown's HeathJuly 26th.
Mollington WoodsAug. 2nd.
Canal and Ball's Knolls Aug. 9th.
Bache HallAug. 16th.
Plemstall and TraffordAug. 23rd.
Delamere and AtchmereSept. 13th.

All the excursions were arranged, but owing to the exceptionally wet season some of them had to be given up, and this was the case with several of our evening rambles. It is to be hoped we shall have a more favourable season this year. Fortunately we had a splendid day for the Eaton Fête, May 21st, which we have counted amongst our excursions, Many of our most active Members devoted themselves to making the day a financial success, which, in a great measure it proved to be, and we have again to thank the Duke of Westminster for opening his Park to us.

Our Annual Conversazione took place on September 24th, rather ealier than usual, in order that we might show some hospitality to the Members of the International Geological Congress, who were many of them at that time on their way to North Wales. Upwards of sixty of their Members visited Chester, and as our Conversaziones are always well attended, your Committee judged that with this additional attraction, the Museum building would not offer sufficient accommodation, and were glad to avail themselves of the Town Hall, which is admirably suited to a large gathering, and which was put at our disposal by the Mayor, W. Brown, Eso. The Members of the International Geological Congress were entertained at dinner, by the Mayor, W. Brown, Esq., the Ex-Mayor, GEORGE DICKSON, ESQ., MR. A. O. WALKER, and other Members of the Society, and then adjourned to the Town Hall, where, as far as possible, the Natural History specimens had been arranged to show the objects of local interest. Unfortunately our President, Professor McKenny Hughes, was unable to be present at our Conversazione, owing to the serious illness of his father, the late Bishop of St. Asaph. This was a great drawback and a loss to our visitors. He too would have thoroughly enjoyed the gathering, as many of the Geological Congress were his personal friends, and doubtless looked forward to the stores of information he would have imparted during their tour in North Wales. For ourselves, we always miss his genial presence, and are heartily glad to welcome him at this our

Annual Meeting. The chair was taken by our Vice-President, MR. A. O. WALKER, who presented the Kingsley Memorial Medal to MR. Shepheard, F.R.M.S., for his Microscopical researches amongst the fresh-water *Polyzoa* and *Infusoria*. Your Committee feel that the Medal has never been in the hands of a more worthy recipient, for in giving it to MR. Shepheard, they give it to one who has for years been an ardent Microscopist, and one who has in many ways contributed to make the Chester Society of Natural Science a permanent and popular institution in the City and neighbourhood. The following prizes from the Kingsley Memorial Fund were also distributed—Miss Lilian E. Tomlin, £5 for a collection of *Coleoptera*; MR. J. Arkle, £3 for a collection of *Micro-Lepidoptera*; MR. R. Newstead, Sent, £3 for a collection of Birds, Skins, &c.; Miss Edith C. Tomlin, £1 for a collection of Bees, Wasps, and Sandwasps

After the distribution of prizes we had several addresses from our foreign visitors, which were listened to with interest, and were convincing proofs that there is nothing more potent than the pursuit of kindred studies, for the awakening of sympathy and kindly feeling amongst diverse nationalities. Subjoined are the names of some of the distinguished savants who were present—Professor G. Capellini, Rector of the University of Bologna; Professor Dr. Joseph Szabo, of Budapest; Professor A. De Lapparent, of Paris; Professor Dr. K. Von Zettel, of Munich; Mr. C. D. Walcott, of the United States Geological Survey; Dr. Hicks, the eminent Welsh Geologist, &c.

The Photographic Section had a room devoted to pictures, both picturesque and scientific; also a lantern show of work done by the Members during the last summer.

The Microscopes were again displayed in the Council Chamber, and our Members have to thank many kind friends for the assistance they rendered during the evening.

Collections of Fossils shown by Mr. T. RUDDY, of Palè, Corwen, and Mr. G. J. WILLIAMS, from Blaenau Festiniog,

were of especial interest to those Geologists who were about to visit Wales for the first time, and your Committee beg to tender to Mr. Ruddy and Mr. Williams their best thanks.

At the General Meetings that have been held during the past winter, the following Papers have been read—

1888. Oct. 25—"Egypt," by T. EYTON-JONES, ESQ., M.D., Wrexham.

Oct. 25—"Egypt," by I. EVIOU-JOIES, Lec, Marcoscopic Organisms of our Streams and Ponds," by

MR. H. M. UNDERHILL (Hon. Secretary of the Oxford

Natural History Society.)

1889. Jan. 31—"An Evening with Micro-photographs," by Dr. Stolterfoth, M.A. Feb. 28—"Vegetable Parasites," by Mr. J. D. SIDDALL.

Mar. 28—"The Improvement of Tidal Estuaries," by J. J. Webster, Esq., C.E. April 25—Annual Meeting.

The General Meetings have been good and fairly well attended.

The Sectional Meetings have met for the discussion of the following subjects—

1888. APPLIED SCIENCE.

Nov. 8-"Electric Lighting," by Mr. F. C. PHILLIPS, M.S.T.E, A.M.I, C.E. 1889.

Feb. 21-"The Steam Engine: its Past and its Future," by the SECRETARY.

1888. BOTANICAL SECTION.

Nov. 15—"Notes on the 'Protista'—the Borderland between Plants and Animals," by the CHAIRMAN.

Jan. 10—"The Structure and Life History of Mignonette (Reseda odorata,") by Mrs. Broadbent.

Mar. 7-" Illustrated Notes on Plant Life," by Mr. H. THOMAS,

1888. GEOLOGICAL SECTION.

Nov. 29-"Charles Kingsley's love of Nature, and its influence on his life," by the CHAIRMAN.

1889

Jan. 24—"The Causes of Volcanoes and Earthquakes, and their Geological effects on the Earth's surface," by the Secretary.

Mar. 21—"The Volcanoes of South Italy, with a note on the latest theory of Volcanic action," by Mr. OSMUND JEFFS (President of the Liverpool Geological Association.)

1888. NATURAL PHILOSOPHY SECTION.

Dec. 13-" Some Peculiarities of Vision," by the CHAIRMAN.

1889.

Feb. 7—"Common Salt: its nature and its uses." (Illustrated with experiments), by the SECRETARY.

Apr. 4—"A few Mathematical ideas for non-Mathematical hearers," by MR. F. F. BROWN, M.A. (late Scholar of Gonville and Caius College, Cambridge.)

The Photographic Section have given a full account of their work in a separate Report, and therefore need not be touched upon here.

The Microscopical Section has not met during this winter, as they feel that the object for which they exist is best promoted in aiding the other Sections, both by Papers that belong to special sections, and by illustrating the work of other Members.

In the Botanical Section we would call your attention to the admirable Paper read to our Society by a Lady Member. The Paper was carefully illustrated, and commended itself by the amount of real scientific work which it involved. We can only hope other ladies may be encouraged to follow so good an example.

The Sectional work has been good and most of the Meetings well attended.

. The power of illustrating by means of photographs and the lime-light has been largely called into use, and for this we owe a debt of gratitude to the Photographers now numbered amongst our Members.

During the past month there has been established a "Paxton Society," composed of working Gardeners, Agriculturists and others, with the object of considering and discussing horticultural matters and problems. This Society is an outcome of the Botanical work carried on by Mr. SIDDALL for so many years, and it must be gratifying to him to see that there is a wish to turn his admirable teaching to some practical account. The subscription to this Society is very small, so that no one need be deterred on that ground. They have also elected a most excellent Secretary, Mr. F. V. Dutton. The Society will meet twice a month in the Grosvenor Museum, and will certainly help to increase our local knowledge by bringing amongst us those who are often in very close contact with nature. We wish them every success.

The experiment of a Monthly Paper giving announcements of Meetings and short Papers on various subjects connected with the different Societies located in the Museum, has had to be discontinued owing to want of support. Our Natural Science Society has returned to the old system—Notice Papers sent each month to every Member containing the announcement of Meetings only.

Your Committee express their great regret at losing from Chester, Mr. A. O. WALKER, who has always proved their staunch friend and supporter. As, however, he will reside in the District, we may hope to see him from time to time, and we shall always feel sure of his interest in our Society.

Through the year there have been regular Meetings of the Committee for the transaction of business, and we hope that our Members have found that the working of the Society has been carried on for the general good of all, and the advancement of our scientific knowledge of the district.

HENRY STOLTERFOTH, M.A., M.D., Scientific Secretary.



CURATOR'S REPORT FOR 1888-89.

It gives your Curator much pleasure to report that the additions to the Natural History Museum during the past year exceed those of the previous one by about 600 specimens, and that a number of these specimens include some very rare species.

The following is a total abstract of the number of species and specimens:—

			Species Presented.	Species Purchased.	Total of Species.	Total of Specimens
		_				
Echinodermata, &c			18		18	28
Coleoptera (Beetles)			262		262	808
Hymenoptera (Bees, &c.)			9		9	16
Orthoptera			I		I	I
Hemiptera			7		7	7
Lepidoptera (Moths and But	terflies)		248		248	474
Diptera (Two-winged Flies)			7		7	7
Various Injurious Insects			8		8	48
Aves (Birds)			55	4	59	75
" " " Eggs			14		14	44
Molluscs (Shells)			22		22	47
Pisces (Fish)			7	2	9	14
Mammalia (Animals)			8		8	8
Geology			25		25	37
Miscellaneous	• •					9
TOTAL			691	6	697	1623

The most important addition to the *Coleoptera* (Beetles) is a collection of 175 species presented by Dr. J. W. Ellis, Liverpool, most of them being new to our collection. These, as well as the other additions to this Order, have been catalogued and arranged in the Cabinet, including MISS TOMLIN'S well-mounted prize collection.

The Lepidoptera (Moths and Butterflies) have been well represented, and our best thanks are due to Mrs. Leather, Delamere Lodge, who very kindly placed the whole of her

collection of Delamere insects at our disposal. Among the many good insects contained in it, was a fine specimen of the Camberwell Beauty (Vanessa Antiopa.) Also to Messrs. J. Arkle, A. O. Walker, Geo. Frater, A. J. Nixon, J. Hannah, (Abergele,) and J. Lyon Denson, for several interesting insects. The Curator has also added several rare insects, including five Imagines and two preserved larvæ of the Bedstraw Hawk Moth (Deilephila Galii.) Ten life histories of this Order have been prepared. The whole collection of Lepidoptera has been thoroughly overhauled, re-arranged, * and catalogued.

Eight life histories of injurious insects, with drawings, have also been prepared, and several others are in course of being worked out.

I regret to say that only two additional life histories of Birds have been prepared during the past year, viz., the Heron and Sparrow Hawk. The former is contained in a valuable glass case kindly presented by Mr. Thos. Shepheard, and for the life histories we are considerably indebted to His Grace the Duke of Westminster, K.G. Out of the total of 72 birds presented, Mr. A. O. Walker, F.L.S., has contributed no less than 29—some of them are very rare, the Raven (Corvus corax) being one of them. Several other interesting birds have been added by the following gentlemen—Rev. E. A. Pitcairn Campbell, Dr. W. H. Dobie, Mr. A. J. Nixon, and Mr. Newstead, Senr., Ince. Mr. Hy. Thomas, Llandudno, Mr. Nixon, and Mr. Kemp, have added several interesting species of birds' eggs to the collection.

Very few additions have been added to the *Mollusca* (Shells), probably owing to the fact that we have lost our very energetic collector, Mr. B. Tomlin. Mr. F. Archer has, however, sent us in a shell (*Tectura testudinalis*) which is new to the district.

Two specimens of the Tope Shark or Tope Dog (Galeus canis) have been presented, one by MR. WALTON GRAY, the

[•] The arrangement adopted being that of RICHARD SOUTH'S new List.

other by Mr. John Buckley, both caught in the Dee, but neither specimens are such monsters as recorded in our local press.

Among the few additions to the *Mammalia* (Animals), is a fine specimen of the old English Black Rat (Mus rattus), by MR. E. W. PARNELL, F.C.S., also a white variety of the common Field Vole (Arvicola agrestis.)

The Curator wishes to express his sincere thanks to the following gentlemen for the use of valuable reference books to assist him in the naming, &c., of specimens—Mr. A. O. WALKER, Mr. Thos. Shepheard, Dr. Stolterfoth, and Dr. W. H. Dobie.

It may be satisfactory to state that all the collections, *minus* Geology and Conchology, have been numbered and catalogued. MR. GEORGE FRATER has done good work in helping your Curator with this extensive undertaking.

Mr. A. W. Lucas, F.R.G.S., very kindly arranged three table cases with Cave Bones, and one with Bala Fossils.

N.B.—All the Specimens have been collected in the Society's District.



ADDITIONS. LIST OF

ECHINODERMATA, &c.

By Mr. A. O. Walker-

Solaster indica

Luidia fragillissima

Porenia pulvilla Pectunculus incrusted with Mucronella Peachii

species Millepedes

Bowerbankia imbricata, (Parasites from Salmon) Obelia dichortoma

Aglaophenia pluma

4 Annelids

By Mr. H. Thomas-

8 Goose Barnacle's (Lepas anatifera)

By Mr. Thos. Shepheard-

1 Echinoderm

Sertularia polyzonias

By Mr. Thos. Shepheard-

Specimens of the Rosy Feather Star (Comatula rosacea), mature and immature forms.

By Mr. G. Dutton-Hair Worm (Gordius aquaticus)

By Mr. R. Newstead-

Spiny Lobster (Palinurus vul-

Common Lobster (Homarus vulgaris)

Nipper Crabs (Portunus puber)

By Mr. Halkyard, Knutsford-Sertularia cupressina

COLEOPTERA (Beetles.)

By Dr. J. W. Ellis, Liverpool-Homalota fungi

> vestita cercylarius

analis

nigra

longicornis atramentaria

melanaria

Philonthus cephalotes

laminatus marginatus

decorns

Ovclonotum orbicularie

Hydroporus erythrocephalus

planus palustris

inequalis

depressus

dorsalis angustalis

22 lineatus 22

melanocephalus

Hydrobius fuscipes

angustatus Octhebius pygmeus

Helophorus aneipennis

aquaticus

By Dr. J. W. Ellis, Liverpool-

Stenus similus

,, tarsalis

latifrons 2.9 Funo

speculator

Guynemeri rusticus

impressus

cicindeloides

Stilicus affinis Simplocaria semistriata

Plectrocelis concinna Homalium rugulipenne

striatum

Gyrinus mergus distinctus

Apion ononidis

carduorum

humuli 9.2 virens

Sitones hispidulus

grisens 22

flavescens Bembidium gutula, var. oblit-

eratum

minimum 22

tibiale

COLEOPTERA—Continued. iverpool— By D1. J. W. Ellis, Liverpool— Number of Specimens.

By Dr. J. W. Ellis, Liverpool — Number of Specimens. Oxytelus maritimus Ceuthorrhynchidius troglodytes Aleochara lanuginosa nitida Xantholinus punctatulus pubescens Tachinus marginellus humeralis Othius fulvipennis Ocypus cupreus morio Ptenidium formicetorum Rhizophagus oipustulatus Byturus tomentosus Mycetophagus quadripustulatus Meligethes picipes Parnus auriculatus Choleva fusca velox Cyprinus æneus Cytilus varius Epuræa æstiva Silpha sinuata Brachypterus urticæ Onthophagus fracticornis Corymbites holocericeus Cryptohypnus riparius Dolopius marginatus Simonius cylindricus Cercyon littorale flavipes unipunctatus quisquilius pygmeus Aphodius conspercatus scybilarius sordidus fætens subterraneus . . rufescens ,, prodromus granarius merdarius 22 plagiatus contaminatus 12 ater inquinatus Anthonomus rubi Philhidrus ovalis Coccinella oblongoguttata

mutabilis

18 guttata

Stomis pumicatus

Pterostichus virtrius

Harpalus latus negleclus tardus Dichirotrichus pubescens Cryptopleurum atomarium Quedius auricomus molochinus boops Cafius Xantholoma Phytosus balticus Ditiscus punctulatus Lacobius nigriceps Octhebius bicolon Megasternum Boletophagum Leiodes humeralis Myrmedonia canaliculata Oxypoda lividipennis alternans Platystethus arenarius Homalium vile Protenius brevicollis Megarthrus depressus Oligota atomaria Gyrophenia affinis Conurus pubescens Philonthus splendens fimetarius bipustulatus varians trossulus Baptolinus alternans Lithocharis ochracea Dianous carulescens Oxytelus laqueatus sculpturatus Cistela murina Thyamis tabida Xeugophora subspinosa Psylliodes affinis Spheroderma cardui Adimonia suturalis Bradycellus similis cognatus harpalinus Hyphydrus ovatus Noterus sparsus Ilybius ater Liopterus agilis Agabus Sturmii Octotemnus glabriculus Ceuthorrhynchus contractus Liosoma ovatula

COLEOPTERA-Continued.

By Dr. J. W. Ellis, Liverpool— Number of Specimens. By Mr. E. Halkyard, Knutsford-Number of Specimens. Species Polydrosus cervinus Otiorhynchus ovatus ligneus By Mr. Nixon-Strophosomus limbatus I Silpha quadripunctata Erirrhinus acridulus Malachius aeneus Ŧ Strophosomus corvli 2 Attelabus curculionoides Phyllobius oblongus 2 Aphodius fætens Cleonus sulcirostris 122 other Species Phyllobius pomonæ Heliopathes gibbus By Master F. R. Bolland-I Clytus arietus By Mr. A. O. Walker-21 Species By Mr. Thos. Shepheard-By Mr. J. Arkle-2 Nebria brevicollis Anomala frischi Philonthus ebeninus other Species 7 other Species By Mr. B. Tomlin-By Mr. R. Newstead-Lacon murinus 2 Omalium rugulipenne Tachypus flavipes Geotrupes typhœus Heliopathes gibbus Anchomenus marginatus Aphodius hæmorrhoidalis 6 Bembidium quadrimaculatum Barypiethes brunnipes biguttatum 6 Ægialia arenaria Aphodius fætens 56 Eluter balteatus other Species 36 I Helophorus aquaticus Aphodius conspurcatus scybalarius 4 Mr. J. Lyon Densonrufipes Larvæ and pupæ of Tenebrio Demetrias atricapillus 6 molitor Ægialia arenaria 5 Elater balteatus By Mrs. Leather-Attelabus curculionoides I Cicendela campestris Grypidius equiseti other Species By Miss Caldecott— 2 Melöe violaceus By Dr. Parry-

HYMENOPTERA (Bees.)

3	Andrena nigroænea				By	Dr. John W. Ellis
	Sphecodes ephippia		• •		,,	,,
	Specie (?)	• •		• •	22	25 7 4 11
4	Species	C.		• •	12	Mr. J. Arkle
т	Imagines and Larva of Nest of Vespa Britania		gigas			Capt. Potts, Mold Rev. J. F. Buckler

2 Blaps mucronata

ORTHOPTERA.

I Locust (Locusta migratoria) By Mr. G. W. Shrubsole

HEMIPTERA.

	Specie					 By Mr.	T. Shepheard
3	Species		• •		• •		A. O. Walker
3	Species	••	• •	• •	• •	 ,,	R. Newstead

	•					
	LEPIDOPTERA (M	oths a	and Butterflies.)			
By Mr. J. Arkle Number of Specimens,		By Mrs. Leather, Delamere Lodge—Number of Specimens.				
6	Odonestris potatoria	2	Triphæna Ianthina			
8	Liparis salīcis	2	Noctua umbrosa			
4	Agrotis exclamationis	2	Trachea piniperda			
5	Leucana pallens	I	Tæniocampa instabilis			
1	Lomaspilis marginata	I	Orthosia lota			
2	Ypsipites elutata	2	Scopelosoma satelletia			
2	Phigalia pilosaria	I	Xanthia silago			
3	Liparis auriflua	2	Agrotis porphyrea			
2	Geometra papilionaria	3	Miselia Oxycanthæ			
	Larvæ of Arctia lubricipeda	I	Calocampa vetusta			
	Odonestris potatoria	2	,, exoleta			
	Arctia caja	4	Anarta myrtilli			
	Amphydasis betularia	2	Plusia Festucæ			
4	Eubolia lineolata	I	Plusia pulchrina			
i	Larentia multistrigaria	I	Phytometra Ænea			
1	Ennomos tiliaria	2	Metrocampa margaritata			
1	Heliophobus popularis	3	Abraxus ulmata			
4	Eubolia lineolata	I	Phigalia pilosaria			
27	Species of Micro-lepidoptera	6	Amphidasis betularia			
-,	opened of antero representa	I	Anisopteryx æscularia			
D.: 7	for Toothon Delement Today		Pachycnemia hippocastinaria			
	Mrs. Leather, Delamere Lodge—	3 4	Chesias spartiata			
2	Gonepteryx Rhamni	4 I	ahlimmania			
9	Colias Edusa	2	Eubolia bipunctata			
22	Anthocaris Cardamines		Aspilates strigillaria			
	(females)	3	Crambus pinetellus			
4	Cynthia Cardui					
I	Vanessa Antiopa	2	Lomaspilis marginta Fidonia atomaria			
4	Argynnis Selene	I				
2	Euphrosyne	2	Euthemonia russula			
5 4	Thecla Quercus	2	Aplecta nebulosa			
4	,, Rubi	2	Procris staticis			
3	Procris statices	3	Polyommatus Ægon			
4	Smerinthus ocellatus	I	Crambus margarataria			
2	Acherontia Atropus	I	Cuculia umbratica			
I	Sphinx Convolvuli	I	Cidaria corylata			
I	Chærocampa porcellus	I	Halias prasinana			
2	Hepialus sylvinus	4	other Species			
3	Dicranura furcula	2	Pupæ of Dicranura vinula			
2	Notodonta camelina	I	Pupa of Anarta Myrtilli			
2	Phragmatobia fuliginosa					
2	Lasiocampa Quercus	By I	Mr. A. O. Walker—			
I	" Var Callunæ	I	Agrotis exclamationis			
3	Cymatophora diluta	2	Larentia pectinitaria			
2	Hydræcia nictitans	I	Eupithecia venosata			
4	Heliophobus popularis	2	Larvæ of Diloba cæruleocephala			
i	Miana literosa	I	Vanessa cardui			
		τ	Hadena contigua			
			•			

LEPIDOPTERA-Continued.

By Mr. Nixon-Number of Specimens

Various larvæ and imagines

By Mr. J. Hannah, Abergele-

Vanessa C. album " cardui

Satyrus semele

Pararge egeria Epinephele hyperanthes Argynnis paphia

aglaia

By Mr. F. Archer-I Trachea piniperda

By Mr. S. I. R. Dickson-Dicranura vinula

By Mr. W. G. Schröder-I Variety of Pieris napi

By Mr. Conway--2 Smerinthus populi

By Mr. J. D. Siddall-I Larentia multistrigaria

By E. Siddall-I Acherontia atropus

By Mr. J. Lyon Denson-Ovæ of dicranura vinula Pygxra bucephala Larva of Bombyx Quercus

By Master Garland-Various larvæ

By Dr. John W. Ellis, Liverpool-2 Tæniocampa opima

By Mr. Geo. Frater-Larvæ of Eriogaster lanestris

Cilix spinula

Emmelesia albulata

Selenia illunaria

By Mr. Geo. Frater-Number of

Larvæ of Diloba cæruleocephala

Xusinites ruberata

Lomaspilis marginata I

Ligdia adustata

Lycana minima (Fues)

other Species, and several larvæ

By Mr. R. Newstead-

Nyssia hispidaria

Hubernia leucophearia Anisopteryx æscularia

Tæniocampa instabilis rubicosa

Cymatophora flavicornis

Macaria liturata

Fidona piniaria Acronycta leporina

Ligdia adustata

Dianthecia cucubali Series of Polyommatus alsus

Acronycta alni (bred) Larvæ of Halias prasinana

Oporabia dilutata

3 Varieties of Hybernia pennaria 3 (bred)

Pericallia syringaria

2

Cymatophora duplaris (bred)

Hadena pisi (bred) I Deilephila Galii (bred from

Wallasey larvæ) Preserved larvæ & pupæ of ditto

Pæcilocampa populi Larvæ of Notodonta drome-

darius Larvæ of Notodonta camelina Platapteryx falcula

3 Amphydasis betularia 3

Acronycta Leporina other Species 39

Life history of Arctia caja

Cosmia trapesina Eriogaster lanestris 22

Zygæna filipendulæ Diloba cæruleocephala

Odonestris potatoria Himera pennaria (var.)

INSECTS. INJURIOUS

By Mr. R. Newstead-6 Life History of Swammerpyrella, with dammia drawings

By Mr. R. Newstead-6 Life History of the Horne Miner (Phytomy Leaf nigricornis), with drawin

INJURIOUS INSECTS-Continued.

By Mr. R. Newstead— Number of Specimens.

9 Life History of Wire-worm
(Agriotes obscurus), with
drawings

6 Life History of Mussel Scale
(Aspidiotis conchiformis),
with drawings

5 Life History of Plum Scale (sp.), with drawings

By Mr. R. Newstead— Number of Specimens.

Life History of Peach and Nectarine Scale (sp.), with drawings.

3 Life History of Currant Bud Mite (Phytoptis Ribis), with drawings

Life History of Green Oak
Tortrix (Tortrix viridana)

DIPTERA (Two-winged Flies.)

By Mr. E. Halkyard, Knutsford— Syrphus Sibesii

,, clypeata ,, balteata Rhingia rostrata By Mr. E. Halkyard, Knutsford— Eristalis tenax Volucella pellucens Leptis scolopacea

AVES (Birds.)

By His Grace the Duke of Westminster—

r Crested Grebe (Podiceps cristatus)

Nest and 4 Young Herons
(Ardea vinerea)

Nest, Eggs, and Young Wild Ducks (Anas boschas)

Nest, Eggs, Male and Female Sparrow Hawk (Accipiter nisus)

By Lord Robert Grosvenor— Merlin (Falco Æsalon)

By Mr. C. Smith— Herring Gull (Larus argentatus) Nest and Young Moorhens (Gallinula chloropus)

I Common Gull (Larus marinus)

By Mr. J. Kemp— Nest and Eggs of Redshank (Totanus calidris)

Nest and Eggs of Black-headed Gull (?) (Larus ridibundus)

3 Eggs of Redshank (Totanus calidris)

By Mr. Garland-

2 Eggs of Hawfinch

3 Shoveler Ducks (Anas clypeata)

By Mr. A. O. Walker— 2 Red-throated Divers (Colymbus

2 Red-throated Divers (Colymbus septentrionalis L.)

By Mr. A. O. Walker-

3 Jays (Garrulus glandarius L.)
Life History of the Kestrel
Hawk (Falco tinnunculus),
Male, Female, 3 Young,
Egg, and Nest

Green-shank (Totanus Glottis)

Short-eared Owl (Asio accipit-

I Little Auk (Mergulus alle L.)

Raven (Corvus corax)

Long-eared Owl (Asio Otus)
Barn Owl (Aluco flammeus L.)

Red-throated Divers, summer plumage) (Columbus septentrionalis)

Knot (Tringa canutus)

2 Common Sandpipers (Actitis
hypoleucos)

2 Little Ringed Plovers (Ægialitis caronica)

I Water Rail (Rallus aquaticus)

I Cormorant (Phalacrocorax carbo)
I Herring Gull (Larus argentatus)

I Common Gull (Larus canus)

Grebe (sp. ?)

Grebe (sp. ?)

ostralegus) (Hæmatopus

By Mr. J. Lyon Denson—

Great Black-backed Gull (Larus

marinus)

AVES-Continued.

By Rev. E. A. Pitcairn Campbell—
Number of
Specimens.

I Spotted Crake (Crex porzana)
2 Common Snipe (Scolopax gal-

linago)

Jack Snipe (Scolopax gallinula)
 Water Rail (Rallus aquaticas)

By Mr. R. Newstead, Senr., Incer Albino variety of the Blackbird (Turdus merula)

By Mr. R. P. Bradbury—
I Redshank (Totanus calidris)

By Mr. Worker, Mollington— 3 Hawfinches (Coccothraustes vulgaris)

By Mr. A. J. Nixon-

I Heron (Ardea cinerea)
I Pochard (Fuliquia ferina)

By Miss Bretherton-

I Lapwing (Vanellus cristatus)

By Captain Griffith—

I Yellow Bunting (Emberiza citrinella)

By Mr. Taylor—

I Little Grebe (*Podiceps minor*),
intermediate plumage

By Mr. J. M. Porter, Colwyn Bay---Number of Specimens.

I Cormorant

2 Young Herring Gulls

By Mr. Hugh Lyle Smyth—
2 Jays (Garrulus glandarius)

By Dr. W. H. Dobie-

2 Great Spotted Woodpeckers (Picus major)

Green Sandpiper (Helodromas ochropus)

White var. of Common Jackdaw (Corvus monedula, L.)

By Mr. Large—

I Great Spotted Woodpecker
(Picus major)

By Mr. Stretch, Ledsham—
I Hooded Crow (Corvus cornix)

Purchased-

I Spotted Crake (Crex porsana)

Scaup Duck (Anas marila)
Common Tern (Sterna fluviatilis)

I Black Start (Ruticilla tithys)

EGGS.

By Mr. Nixon, Manley— Wood Wren

Wood Wren

I Black-cap WarblerI Common Bunting

I variety of House Sparrow

I Green Wood-pecker

By Mr. H. Thomas— 2 Common Gulls

6 Guillemots

3 Cormorants

By Mr. Howard Nicholson— 5 common species By Mr. E. Siddall— 1 Swan

By Mrs. G. A. Dickson — 4 Guillemots

By Mr. A. O. Walker—
Nest and Eggs of Chiff Chaff
(Sylvia rufa)
Eggs and Young Lapwing
(Vannellus cristatus)

MOLLUSCA (Shells.)

By Mr. B. Tomlin-

3 Vertigo edentula I Solen pellucidus Helix rupestris By Mr. B. Tomlin—

8 Pupa umbilicata

I Conulus fulons
2 Rissoa parva

MOLLUSCA-Continued.

By Mr. B. Tomlin-Number of Specimens

2 Helix Sericea

3 Hyalinia pura (var. margarit-

Pupa marginata Buccinum undatum

By Mr. F. Archer-

I Tectura testudinalis Series Pholas candida

By Mr. Lucas-

2 Fusus antiquus

I Pecten maximus

By Mr. A. O. Walker-Number of Specimens

Tapes virgineus ī

Pectunculus qlycimerus

Cardium echinatum

Helcion pellucidum

Venus ovata

By Mr. Hy. Thomas-I Sepiola Rondeletii

PISCES (Fish.)

By Mr. A. O. Walker-

I Greater Forked Beard (Physis furcatus)

Roach (Leucis rutulis) 2

Bream (Abramis brama) I Conger Eel (Conger vulgaris)

By Mr. Guy-

Perch (Perca fluviatilis), weight Ilb. 6oz.

Bream

By Mr. John Buckley, Heswall-I Tope Shark (Galeus canis), length 4ft. 7in., weight 25tbs

By Mr. Walton Gray-

I Young Shark (Galeus canis)

Purchased-

Three-bearded Rockling

Young Salmon (Salmo salar)

MAMMALIA (Animals)

By Mr. Siddall-

I Common Stoat (Mustela erminea)

By Mr. Cecil Smith-

I Common Stoat (white variety)

By Mr. Jas. Collinge-

I Great Bat (Scotophilus noctulæ)

By Miss Tomlin-

I Hedgehog (Erinaceus Europæus)

By Mr. W. Smith, Nantwich-1 Albino var. Common Field Vole

(Arvicola agrestis)

By Dr. W. H. Dobie-

Common Stoat (Mustela erminea)

By Mr. E. W. Parnell-

I Old English Black Rat (Mus

rattus L.)

Common Mole (Talpa Europæa)

GEOLOGY.

By Mr. A. O. Walker-

Several Fish Coprolites, and 4 Sections of ditto, mounted for the Microscope

By Mr. W. C. Jones-Specimens of Zinc Blende By Mr. E. Myddleton-

23 Specimens of Drift Coral from Drift Gravel at Padeswood

MISCELLANEOUS.

By Dr. H. Stolterfoth—
Photographs of Flea (Pulex irritans)

By Mr. F. Archer, Crosby—
I Hammer Stone, from a fissure on Little Orme

By Mr. A. O. Walker— Catalogue of British Coleoptera, bound and interleaved

By Miss A. Okell— Coloured Drawings of Larvæ By Mr. Thos. Shepheard—
2 Glass Jars
Large Glass Case for Life History
of Herons, size 5' 6" × 3' × 6' 2"

By Mr. Hy. Thomas— Collection of Preserved Ferns, collected by Miss Potts

By Mr. J. D. Siddall— Labels for Microscopic Slides

R. NEWSTEAD, CURATOR.

April 20th, 1889.



52

The Hon. Treasurer in account with the Chester Society of Natural Science and Literature, for the Year ending April 30th, 1889.

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23RD MAY, 1889-Examined and found correct, shewing a balance in the hands of the Treasurer of Eighteen Pounds Three Shillings.

JOHN MILLS, HON. TREASURER.

J. ROWE DUTTON, HON. AUDITORS.

"KINGSLEY MEMORIAL" FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1889.

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APRIL 15TH, 1889—Examined and found correct,

EDMUND J. BAILLIE, Hon, Treasurer.

W. VINCENT, Hon. Auditor.

PHOTOGRAPHIC SECTION.

RULES.

- 1. Each Member shall pay an Annual Subscription of 2/6, due in advance.
- The affairs of the Section shall be managed by a Committee of at least seven Members; three to form a quorum. This Committee to be elected annually by ballot.
- 3. The Chairman and Secretary of the Section to be ex-officio Members of the Committee.
- 4. The Committee shall from time to time fill up any vacancies that may occur in their own body; they shall manage the affairs of the Section, and shall have the power of appointing Committees from amongst themselves or the other Members of the Section, and of framing Bye-laws that may become necessary for the management; but these Bye-laws must be passed by the first General Meeting before coming into effect.
- 5. The Annual Meeting shall be held on the last Friday in March to receive the Report of the Committee and the Financial Statement, to nominate (by ballot) Chairman and Secretary, and to elect Members of Committee for the ensuing Session. No alteration of the Bye-laws shall be made except at the Annual Meeting, or at a Special General Meeting called by the Chairman, or at the request of five Members; seven days' notice of such proposed alteration being sent to every Member in the circular convening the Meeting.
 - 6. That a Meeting of the Section be held once a month.
- 7. Voting on all questions shall be decided by a majority of the Members present, the Chairman having the power to decide an equality of votes by a casting vote, in addition to his ordinary one.

REPORT.

In presenting their first Report of the work of this Section, the Committee would note with much satisfaction the success which has thus far attended its formation, and the lively interest which has been shewn in its proceedings.

It will be within the recollection of most Members that a *Photographic Society* was formed on the 16th March, 1887, at a Meeting convened for the purpose at the Grosvenor Museum, when thirty-two persons joined, but yery shortly it was deemed

advisable to alter its constitution, and by permission of the Natural Science Society it was refounded as the "Photographic Section" of that body.

Since then Meetings have been held regularly throughout the winter months, which have been well attended, and much interest has been aroused in the subjects discussed. The number of Members has also increased to sixty-three.

The collection of Photographs exhibited at the last Conversazione met with much commendation, both for their artistic worth and their admirable execution. Prizes were awarded as follows:—

For Instantaneous Work, to Mr. F. T. FARRIMOND.
,, Landscape Mrs. T. H. HIGNETT.

,, Architecture Mr. F. Evans. ,, Life Studies Mr. E. Pulling.

,, Photographs of Scientific interest, viz., Photomicrographs

DR STOLTERFOTH.

In addition to the more strictly technical Meetings, the Section has been instrumental in arranging several Public Lectures, illustrated by Photographic Lantern Slides, which have afforded much pleasure to large audiences. In this connection the Committee would desire especially to recognize the kindness of Mr. G. E. Thompson, of Liverpool, whose "Waterways of Holland," and "Italian Pictures," charmed those fortunate enough to be present.

Members are reminded that the Developing Room is now open for their use, and is fairly well equipped with apparatus. Also, that they have permission to photograph in Eaton and Hawarden Parks upon production of their tickets of Membership. The Committee tender their respectful thanks to His Grace the Duke of Westminster, K.G., and to Mr. W. H. Gladstone for their kindness in this respect; and also to the former for his valuable gift of the Enlarging Apparatus now in use by the Society.

Hereto is annexed the Hon. Secretary's Statement, shewing a satisfactory financial position.

The Committee trust that during the coming Session the Members will do their utmost to promote the welfare of both Summer Excursions and Winter Meetings, remembering that it is upon their own mutual efforts the continual progress and prosperity of the Section will depend.

Appended is a list of the several Meetings held and subjects treated of.

1887.

June 22.—"The Platinotype Process," by MR. W. P. J. FAWCUS.

Nov. 9.-" Lantern Slides," by Mr. F. Evans.

Nov. 24.—" Paper Negatives and Stripping Films, by Mr. E. W. PARNELL.

Dec. 1.—"Exhibition of Negatives, Prints, and Lantern Slides, by the MEMBERS.

Dec. 16,--" Enlarging," by Messrs. E. W. Cowan, and W. P. J. Fawcus. 1888.

Jan. 19.—"Picturesque Glimpses of Italy," by MR. G. E. THOMPSON.

Mar. 8.—"Light and Colour," by REV. A. H. FISH, B.Sc.

April 19 .- " Composition," by MR. T. WALMSLEY PRICE.

June 2,-Discussion on Instantaneous Shutters.

Nov. 1,-" Photo-micrography," by Dr. STOLTERFOTH.

Nov. 28.—" Photographic Apparatus and its manipulation, by Mr. W. P. J. FAWCUS.

Dec. 6.—"American Films and Bromide Paper," by Mr. H. S. Bellsmith, of the Eastman Dry Plate and Film Co.

Dec. 10.—" The Negative and its development," by Mr. E. W. COWAN.

Dec. 12.—"The Waterways of Holland," by Mr. G. E. THOMPSON. 1880.

Feb. 14.—Exhibition of Negatives, Prints, and Lantern Slides, by the Members.

Mar. 13.—"A Tour to the Bernese Oberland of Switzerland," by Mr. G. F. WYNNE.

Mar. 19.—" Printing and Dodging Negatives," by MR. F. EVANS.



SECTION. PHOTOGRAPHIC

BALANCE SHEET TO 31st MARCH, 1889.

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KINGSLEY MEMORIAL PRIZES.

Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition, and which have already been advertised in local and other newspapers:—

1889.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above, the Committee have decided that, in order to encourage scientific research, they will make grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

The Collections, Essays, or Notes of Observations may be sent in to either of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

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Kingsley, Miss	
Kingsley, Mr. G. A.	
Kingsley, Mr. G. A	
Kirkpatrick Mrs Ach Grove	
Kirkpatrick, Mrs	
Knowies, Mr. E. K Grosvenor street	
Lacy, MrsMoor Holme, Neston	
Lamont, Mr. A	
Lamont, Mr. A., Junr,	
Lamont, Mr. A	
*Lawrence, Dr. A The Asylum, Chester Lees, Mr. W., M.R.C.S The Infirmary	
Lees, Mr. W., M.R.C.S The Infirmary	
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Lipsham, Mr. F	
Lipsham, Mr. F	
Lloyd, Mrs. Horatio	
Lloyd, Mrs. Horatio, ,, ,, Lloyd, Mr. E. Honoratus, ,,	
Lloyd, Mrs. E. 24 Eaton road Lloyd, Miss M. E. 20 Lorne street	
Lloyd Miss M. F. 20 Lorne street	
Lockwood, Mr. T. M., F.R.I.B.A80 Foregate street	
Lowe, Mr. G. B25 Hough green	
I ama Miss C II	
*Towe Mr W F A R S M)	
*Lowe, Mr. W. F., A.R.S.M., F.I.C., F.C.S. 21 Granville road, Cambrian view	
Love We W F	
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Luxinoofe, Mr. E. D., J.F., F.M.S Dryn-Asapit, St. Asapit	
Lynch, Rev. F Grosvenor Park road	
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Manley, Mr. H Aston, Nantwich	
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Manning, Miss Edith 18 Upper Northgate street	
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Marsden, Miss 6 Grosvenor park road	
Mareden Miss F	
Marshall, Mr. W. H	
Martin, Mr. E	
Mason, Mr. F. B 3 Lorne street (North)	
Massie, Admiral 3 Stanley place Massy, Miss Mansfield lodge, Hough green	
Massy, Miss	
Mawdsley, Miss M. M 8 Eaton road	
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Mawdsley, Miss J. G. ,, Mawdsley, Mr. W. H	
	don, N.
*McKerchar, Mr. J35 Giesbach rd , Upper Holloway, Lon	don, N.
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Morton, Mr. G.	Dodleston, near Chester
Moses, Mr. H. C	6 Northgate street
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Nichols, Mr. G. F.	12 Chichester street
Attendes, Mit. G. F	12 Offichester street
*Okell, Mr. W. H	I Northgate street
*Okell, Mr. E. W	22 Northgate street
Okell, Mr. P. H	The Cross
Okell, Miss	6 Curzon park
Okell, Miss M. H	1, 1,
Oldfield, Mrs.	68 Northgate street
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Oldmeadow, Mr. Geo. E.	22 Lorne street
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Owen, Miss Bessie	18 Queen street
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Owen, mis john	Little Satton
Palin, Mr. G. F.	Parr's Banking Co., Eastgate street
Parkes, Mr. A	Bridge street row
Parkes, Mr. A	Bridge street row
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Parkes, Mr. A. Parkes, Mrs. A. *Parnell, Mr. E. W., F.C.S. Parry, Mrs. C.	Dee hills 24 Frodsham street
Parkes, Mr. A. Parkes, Mrs. A. *Parnell, Mr. E. W., F.C.S. Parry, Mrs. C. Parry, Mr. Gilbert	Dee hills 24 Frodsham street Farndon Hall, Chester
Parkes, Mr. A. Parkes, Mrs. A. Parnell, Mr. E. W., F.C.S. Parry, Mrs. C. Parry, Mr. Gilbert	Dee hills 24 Frodsham street Famdon Hall, Chester Language Northwate street
Parkes, Mr. A. Parkes, Mrs. A. Parnell, Mr. E. W., F.C.S. Parry, Mrs. C. Parry, Mr. Gilbert	Dee hills 24 Frodsham street Famdon Hall, Chester Language Northwate street
Parkes, Mr. A. Parkes, Mrs. A. Parnell, Mr. E. W., F.C.S. Parry, Mrs. C. Parry, Mr. Gilbert	Dee hills 24 Frodsham street Famdon Hall, Chester Language Northwate street
Parkes, Mr. A. Parkes, Mrs. A. Parnell, Mr. E. W., F.C.S. Parry, Mrs. C. Parry, Mr. Gilbert	Dee hills 24 Frodsham street Famdon Hall, Chester Language Northwate street
Parkes, Mr. A. Parkes, Mrs. A. Parnell, Mr. E. W., F.C.S. Parry, Mrs. C. Parry, Mr. Gilbert	Dee hills 24 Frodsham street Famdon Hall, Chester Language Northwate street
Parkes, Mr. A. Parkes, Mrs. A. *Parnell, Mr. E. W., F.C.S. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Payne, Miss Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. H. G. Phillipson, Mr. H. G.	Dee hills 24 Frodsham street Farndon Hall, Chester 10 Upper Northgate street 4 Abbey green 12 Liverpool road """
Parkes, Mr. A. Parkes, Mrs. A. *Parnell, Mr. E. W., F.C.S. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. J. Phillipson, Mr. J. Tindal, B.A Pierson, Mr. F. A.	Dee hills 24 Frodsham street Farndon Hall, Chester 10 Upper Northgate street 4 Abbey green 12 Liverpool road "" 2 Grosvenor place
Parkes, Mr. A. Parkes, Mrs. A. *Parnell, Mr. E. W., F.C.S. Parry, Mr. Gilbert *Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. J. Phillipson, Mr. J. Tindal, B.A. Pierson, Mr. F. A.	Dee hills 24 Frodsham street Farndon Hall, Chester 10 Upper Northgate street 4 Abbey green 12 Liverpool road "" 2 Grosvenor place Bridge street
Parkes, Mr. A. Parkes, Mrs. A. *Parnell, Mr. E. W., F.C.S. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Payne, Miss Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. J. Phillipson, Mr. J. Pierson, Mr. F. A. Pierson, Mr. F. A.	Dee hills 24 Frodsham street Farndon Hall, Chester 10 Upper Northgate street 4 Abbey green 12 Liverpool road "" 2 Grosvenor place Bridge street 0 Rloak friars
Parkes, Mr. A. Parkes, Mrs. A. *Parnell, Mr. E. W., F.C.S. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Payne, Miss Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. J. Phillipson, Mr. J. Pierson, Mr. F. A. Pierson, Mr. F. A.	Dee hills 24 Frodsham street Farndon Hall, Chester 10 Upper Northgate street 4 Abbey green 12 Liverpool road "" 2 Grosvenor place Bridge street 0 Rloak friars
Parkes, Mr. A. Parkes, Mrs. A. *Parnell, Mr. E. W., F.C.S. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Payne, Miss Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. J. Phillipson, Mr. J. Pierson, Mr. F. A. Pierson, Mr. F. A.	Dee hills 24 Frodsham street Farndon Hall, Chester 10 Upper Northgate street 4 Abbey green 12 Liverpool road "" 2 Grosvenor place Bridge street 0 Rloak friars
Parkes, Mr. A. Parkes, Mrs. A. *Parnell, Mr. E. W., F.C.S. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Payne, Miss Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. J. Phillipson, Mr. J. Pierson, Mr. F. A. Pierson, Mr. F. A.	Dee hills 24 Frodsham street Farndon Hall, Chester 10 Upper Northgate street 4 Abbey green 12 Liverpool road "" 2 Grosvenor place Bridge street 0 Rloak friars
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Prichard, Miss
Puget, Miss Louisa Du Fernville, Curzon park
Pye, Mr. Jas
*Ramsden, Mr. W
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Ray, Miss
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Reade, Mr. Walter, ,, ,, Reynolds, Mr. Geo. HThe Cottage, Eccleston
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Rhodes, Mrs
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Roberts, Mr. J
Roberts, Miss Annie 14 Stanley place
Roberts, Miss M
Roberts, Dr 8 Abbey square
Roberts, Mr. Hugh Crypt Chambers
Roberts, Mr. R. Mostyn 9 Bouverie street Roberts, Miss Johnson 7 Lumley road, Liverpool road
Rogers Mr. Tames The Cross
Rogers, Mr. Ino Watergate House
Rogers, Mr. James The Cross Rogers, Mr. Jno. Watergate House Rogers, Mr. W. ,, Rogerson, Mr. G. H. , Nicholas street
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Rowland, Mr. I
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Small, Mr. A. H	3, Deva terrace
Smith. Mr. T.	Blacon Point, Chester
Smith, Mrs. S	. 16 Nicholas street
Smith Miss H.	Chichester street
Smith Mr F	Beechwood House, 10 Canal street
C. M. Min E	, December 110 and 110
Smith, Miss F.	
Smith, Miss L.	1 + 27 37 EH
Smith, Mr. John	Market Square
Smith Mr Harry	Denysheld Vicar's Cross
Smith, Mr. T. J. Smith, Mrs. T. J. Smith, Mrs. A. Ford, B.A	Moor House, Flookersbrook
Smith, Mrs. T. J.	
Smith, Mr. A. Ford, B.A	White friars
Smith Mr D R	20 Cleveland street, Birkenhead
Smuth Mice Tule	Barrowmore Hall, near Chester
Spencer, Mr. J. H.	26 Bridge street
Spencer, Mr. J. II.	Nowton Cottage near Chester
Spooner, Miss	Newton Cottage, near Chester Grosvenor park road
Stevenson, Mr. A	Grosvenor park road
Stewart, Mrs.	30 White inars
*Stolterfoth, Dr., M.A.	60 Watergate street
Stolterfoth, Mrs	** 12 21
Storr, Mr. F	. 21 The Groves
Storr Mice	
Storr, Miss Storrar, Miss S	Newgate street
Storial, Miss S	TIM Goological Survey Museum
*Strahan, Mr. Aubrey, M.A., F.O.	G.S. H.M. Geological Survey, Museum, Jermyn street, London, S.W.
	Jermyn street, London, S. W.
Summers, Mr. E	I South view, Tarvin road
Sumner, Mrs. A	. 4 Grosvenor place
AT-4- Mr A Norman ETC	a II. alain's II. I increased
Tiare, Mr. A. Norman, F.L.C	q. flackin's fley, Liverpoor
Tatler, Mr. R. F.	Woodbine cottage. Louise Street
Tatler, Mr. A. Norman, F.I.C Tatler, Mr. R. E	9, Hackin's Hey, LiverpoolWoodbine cottage, Louise street
Tatler, Mr. A. Koman, F.I.C Tatler, Mr. A. E Tatler, Mr. A	
Tatler, Mr. R. E. Tatler, Mr. A. Tatlock, Mr. J.	Woodbine cottage, Louise streetI Saint John StreetI Saint John StreetI Saint John StreetI Saint John Street
Tatler, Mr. A. Tatlock, Mr. J. Taylor, Mr. Hy, Enfield, J.P., M	21 Saint John street f. Inst. C.E. Aston Hall, Hawarden, Chester
Tatler, Mr. A. Tatlock, Mr. J. Taylor, Mr. Hy. Enfield, J.P., M Taylor, Mr. J., F.R.C.S	21 Saint John Street I. Inst. C.E Aston Hall, Hawarden, Chester 22 Newgate street
Tatler, Mr. A. Tatlock, Mr. J. Taylor, Mr. Hy. Enfield, J.P., M Taylor, Mr. J., F.R.C.S	
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Tatler, Mr. A. Tatlock, Mr. J. Taylor, Mr. Hy. Enfield, J.P., M Taylor, Mr. J., F.R.C.S	
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Tatler, Mr. A. Tatlock, Mr. J. Taylor, Mr. Hy. Enfield, J.P., M Taylor, Mr. J., F.R.C.S Taylor, Mr. John Taylor, Mr. A. G. Taylor, Mrs Taylor, Mr. J. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Mrs.	21 Saint John Street I. Inst. C.E Aston Hall, Hawarden, Chester22 Newgate streetHoole Hall78 Watergate streetMeadow view, Dee banks4 Hough greenTyn Llwyn, CorwenCity Walls (South)
Tatler, Mr. A. Tatlock, Mr. J. Taylor, Mr. Hy. Enfield, J.P., M Taylor, Mr. J., F.R.C.S Taylor, Mr. John Taylor, Mr. A. G. Taylor, Mr. A. G. Taylor, Mr. J. B. Taylor, Mr. J. B. Taylor, Mr. R. Mascie Tennant, Mrs. Tennant, Miss Thomas, Mr. E.	
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The following Books have been added to the Library since the last Annual Report was issued;

BOTANICAL SECTION.

		DOTAMIONE DECTION.
В	198	Ireland—Illustrated—Nature printed by Hy.
		Bradbury. Presented by Miss Brown 1855
В	199	Paxton (J.) Pocket Botanical Dictionary. Presented by Mr. M. Harrison
		GEOLOGICAL SECTION.
G	159	Congrès Géologique International Compte Rendu de la, Second Session, Bologne, 1881 1882
G	160	Congrès Géologique International, Fourth Session London, 1888. Explications des Excursions (2 copies)
G		Hicks (H.) On the Cae Gwyn Cave, North Wales, with a Note by C. E. De Rance, F.G.S 1888
G	161	Judd's Volcanoes: What they are and what they teach. Presented by Dr. Stollerfoth 1881
G		Monograph of the Fossil Reptilia of the Liassic Formations, by Prof. Owen. Presented by Mrs. Kingsley
G	131	Proceedings of the Geologists' Association, Vols. X. and XI., 4 Parts1888-89
G	95	Proceedings of the Liverpool Geological Society, Part 4, Vol. V., 1887-88
G		Relatorio do Congresso Geologico Internacional, Londres
G	116	Transactions of the Manchester Geological Society, Vols. XIX. and XX., 8 Parts 1888-89
G	84	Vol. XLII. of the Palæontographical Society, issued for year 1888, containing— Nicholson's Stromatoporoids Jones and Sherborn's Tertiary Entomostraca Hudleston's Jurassic Gasteropoda Buckman's Inferior Oolite Ammonites Whidborne's Devonian Fauna of the South of England
		MICROSCOPICAL SECTION.
M	47	Naegeli and Schwandener's "The Microscope in Theory & Practice. Presented by Dr. Stolterfoth 1887
M	36	Quekett Microscopical Club's Journal, Vol. III.,

		PHOTOGRAPHIC SECTION.	
P	15	Abney (Capt.) Treatise on Photography	1885
	17	Harrison (W. Jerome) History of Photography	1888
	18	Photographic News, Vol. XXXII	1888
	21	"The Amateur Photographer"	1888
	19	"The Camera," Vol. II	1887
	20	Ditto Vol. III	1888
	16	Wilkinson, Photo-Engraving and Photo-Litho- graphy	1887
		ZOOLOGICAL SECTION.	
Z	79	Douglas and Scotts' British Hemiptera, Vol. I., Hemiptera-Heteroptera	1865
Z	82	Flower (W. H.) Osteology of the Mammalia. Presented by Dr. Stollerfoth	1876
Z	81	Gerard (M.) Les Metamorphoses des Insectes Presented by Dr. Stollerfoth	
Z	83	Huxley and Martin's Course of Practical Biology. Presented by Dr. Stollerfoth	1883
Z	31 <i>a</i>	Huxley (T. H.) Lessons in Elementary Physiology (Duplicate copy.) Presented by Dr. Stolterfoth	1879
Z		Matthews (A.) and Fowler (W. W.) Catalogue of British Coleoptera. Presented by A. O. Walker, Esq	1003
Z	80	McAlpine's Biological Atlas. Presented by Dr. Stolterfoth	1001
Z	78	Proceedings of the Liverpool Biological Society, Vol. II. Presented by Mr. A. O. Walker	1000
		Second Annual Report on the Puffin Island Biological Station	1009
Z		Walker (A. O.) Report on the Crustacea of Liverpool Bay, 1886-87	1888
		MISCELLANEOUS SECTION.	
		Annalen des K.K. Naturhistorischen Hofmuseums. Vienna, 4 Parts	888-89
		Annual Report and Proceedings of the Liverpool Science Students' Association, Session 1887-88	5
X	99	Annual Report and Transactions of the North Staffordshire Naturalists' Field Club and Archæological Society	1

MISCELLANEOUS—Continued.

X	107	Annual Report of the Board of Regents of the Smithsonian Institution, 1885, Part 2	1886
		Annual Report of the Ealing Microscopical and Natural History Society for 1887-88	1888
		Boletin de la Academia Nacional de Ciencias en	
		Cordoba (Republica Argentina), 2 Parts188	8-89
		Fletcher (A. E.) Description of an Anemometer capable of measuring the speed of Air in heated Flues, &c.	1876
		Handbook of Manchester, prepared for the British Association, 1887	ĺ
			1887
		(, , , , , , , , , , , , , , , ,	1888
X		Journal of the Trenton (U.S.A.) Natural History Society, No. 3, January, 1888	
		Les Merveilles du Monde Invisible, by Wilfred de Fonveille. Presented by Dr. Stotterfoth	
		Memoires de la Societé des Naturalistes de Kiew (Russia), 3 Parts	
		Parker (W. K.) On the structure and development of the Skull in the Batrachia, 1881; On the	
		Skeleton of the Marsipobranch Fishes, 1883; On the structure and development of the Skull	
		in the Mammalia, 1885; On the Structure and development of the Wing in the common	
		Fowl, 1888. Presented by the Author through the Rev. C. L. Feltoe	
		Parkhurst (H. M.) Photometric Observations of Asteroids (Annals of the Harvard College	
		Observatory, U.S.A.)	
			1889
X	27	Proceedings and Transactions of the Natural History Society of Glasgow, Vol. II., Part 1	888
X	25	Proceedings of the Bristol Naturalists' Society, Vol V., Part 3188	7-88
X	26		888
X	26		1889
X	104	Proceedings of the Royal Society, Vol. XLIII., Nos. 263-4-5	888

MISCELLANEOUS - Continued.

X	29	Report and Proceedings of the Manchester Field Naturalists and Archæologists' Society for 1887	888
X	30	Report and Proceedings of the Manchester Scientific Students' Association for 1888 15	
X	126	Report of the British Association for 1888 18 Report of the Commissioners appointed to inquire into the Sea Fisheries of the United Kingdom.	
		Report of the Inspectors of Salmon Fisheries (England and Wales.) Presented by Mrs.	866
X	36	The Essex Naturalist (Journal of the Essex Field	869
	<i>y</i> -	Club), Monthly Parts	
X		Transactions of the Cardiff Naturalists' Society, Vol. XX., Part 1	388
		Mrs. Kingsley	-72
		Webster (J. J.) Dredging Operations and Appli-	387
		Graphoscope. Presented by Miss Brown	

The Library is open to the Members, and Books may be obtained on the following days:—

MONDAYS - - - 7 to 8 p.m.
THURSDAYS - - 7 , 8 ,
SATURDAYS - - 2 , 4 ,

Notice.—Copies of the Society's Proceedings, (No. 1, price 6d., Nos. 2 and 3, price 2(6 each); also the Catalogue of the Society's Library, with recent additions (price 1d.) may be obtained from Mr. John Mills, Eastgate Row; Mr. G. R. Griffith, Grosvenor Street; or the Curator, Grosvenor Museum.

3 AUG 1889







CHESTER

Society of Patural Science & Literature.

(Founded by Charles Kingsley, 1871.)

NINETEENTH

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,

FOR THE YEAR 1889-90.



CHESTER:

PRINTED BY G. R. GRIFFITH, GROSVENOR, STREET,

MDCCCXC



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NINETEENTH ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS for 1889-90,

AND THE

LIST OF MEMBERS FOR 1890-91,

ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR COMPETITION.





CHESTER:

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCXC.



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Jon. Anditors :

MR. BERESFORD ADAMS. MR. J. ROWE DUTTON.

Chrator :

MR. R. NEWSTEAD, F.E.S., The Grosvenor Museum,

RULES.

1.—That the Title of this Society be "The Chester Society of Natural Science and Literature," and that its object be the promotion of the study of Natural Science by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2.—That the Officers be a President, Six Vice-Presidents, Treasurer, Three Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above-named Officers, who shall be Ex-Officio Members, and Six other Members of the Society—the President or a Vice-President the Chairman; and that the practical management of the Society be vested in the Committee, subject to the following Rules:—

4.—That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee previous to a General Meeting.

5.—That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life

Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five.

7.—That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8.—That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year.

9.—That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10.—That the Committee shall meet monthly for the despatch of business:

Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No Paper shall be read without the previous sanction of the Committee. Objects of scientific

interest may be exhibited at the Evening Meetings.

13.—That at the Annual General Meeting, which shall be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six Days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no Iterations in the Rules shall otherwise be made.

ANNUAL REPORT.

Your Committee have pleasure in presenting this the Nineteenth Annual Report, as in so doing they are able to testify to the prosperity of the Society. The number of Members now on the books is 661, showing an increase of 44 during the last year.

We have to record with regret the loss of one of our earliest Honorary Members, Mr. Charles Easton Spooner. He was born at Maentwrog in 1818. During a long life he did much to develop the industries of Wales. He introduced the Narrow-Guage Railways, with which his name will always be associated. He took a deep interest in our Society, and on many occasions gave us substantial help.

In last year's Report you will observe that our title no longer stands as the "Chester Society of Natural Science." Valuing much all that has been done in the direction of Natural Science, which owed its first stimulus to our founder, CHARLES KINGSLEY, we still acknowledge him as a master in a wider field, and are very sure we should have had his sympathy in our new departure. If we would, we could not have excluded literature, as no branch of science could exist without it. But it was felt by some of our Members that there was another range of thought outside the purely scientific, and that such subjects as Poetry, History, and Biography, ought not to be unrepresented. These subjects, including as they do a store of mental facts and critical acumen. conduce not a little to the improvement of taste and the development of genius. The new Section was happy in securing so admirable a Chairman as BISHOP JAYNE; and the Secretary, the REV. A. H. FISH, produced a programme for the Session which has proved an unqualified success. From the good attendance at the Lectures we feel satisfied that there are many who follow with pleasure the operations of the human mind when given to the contemplation and elucidation of high and

pure thought. So we rejoice that a want has been supplied, which it is hoped will give strength to the Society, keeping together all those who wish for the general diffusion of knowledge.

We regret that the Management Committee of the Grosvenor Museum have not seen their way to enlarge the building. The Natural History specimens are becoming sadly crowded, but this we hope may be remedied in process of time.

Our Curator, Mr. R. Newstead, will place before you a Report of the Natural History Museum, with a list of those who, by their donations, have increased our local collections.

The Committee take this opportunity of thanking Mr. Newstead for his great and untiring devotion to the production of a good local collection of Natural History specimens. The value of a Museum is more than doubled by having at its head a Curator who knows, appreciates, and loves the objects by which he is surrounded. Owing to Mr. Newstead's great willingness to assist all those who are anxious to learn, many visit the Natural History department not only to see, but to hear all that the Curator has to impart with regard to the peculiarities and life-history of the specimens, and they go away not only interested but better prepared for future investigation on their own account and further study. The more specimens we receive accurately described and labelled the better for all those who visit the Museum.

The Library of the Society is in good order, and the loan of books from the Free Library is of material assistance to the Students.

Our Honorary Treasurer, Mr. Mills, will read the Balance Sheet for the past year. Although it may seem but a trifling business to collect the small annual sums which make up our income, I would wish to remind our Members that if they would pay in their subscriptions early in the year they would materially lighten Mr. Mills's labours. We feel we owe him a debt of gratitude for having managed the finances so well for so many years.

The Honorary Treasurer for the Kingsley Memorial Fund, MR. BAILLIE, will place before you his Balance Sheet.

The general work of the Society we place as usual under the following heads:-

EXCURSIONS CONVERSAZIONE CLASSES FOR INSTRUCTION EVENING RAMBLES GENERAL MEETINGS PRIZES SECTIONAL MEETINGS

The following places were visited during the past summer:-

> 1889. May 24th Bodfari and Maesmynan. July 18th Helsby. Sept. 10th "The World's End," Llangollen.

EVENING RAMBLES.

May 31st The Dale and Mostyn Wood. June 5th Upton Nurseries. June 14th Delamere Forest. June 21st Bache Hall. July 3rd Waverton. July 24th..... The Serpentine and Eaton Gardens. July 31stLache Eyes. Aug. 7th The Avenue and Town Lane.

It will be seen there were only four Day Excursions, but three of the Evening Rambles were reckoned as General Meetings, and in this way the spirit of the Rules was preserved, and the work of the Society carried on.

The Annual Conversazione took place on the 3rd of October, when we had the pleasure of welcoming our President, PROF. McKenny Hughes. The meeting was a large and successful one. The recipient of the Kingsley Memorial Medal was MR. T. RUDDY, the well-known Geologist, whose work amongst the Cambrian Rocks is of high scientific value. Our President welcomed MR. RUDDY as the recipient of the Kingsley Medal in most flattering terms. Her Majesty The Queen, when at Palé, examined MR. Ruppy's valuable collections, and expressed much interest in all he had done.

The Kingsley Memorial Prize was this year divided— \pounds_5 to Miss Edith C. Tomlin, for her Collection of *Diptera* and *Hymenoptera*; \pounds_5 to Mr. W. E. Sharp, for his Collection of *Coleoptera*; a Grant of \pounds_5 to Mr. Newstead, for his researches into the life-histories of Injurious Insects. Smaller Grants were also made to Mr. A. J. Ninon, Miss Annie Siddall, and Miss Muriel Broadbent.

The chief feature of the Council Chamber was that this year the Electric Light was used for illuminating the Microscopes. The success was not as great as we could have wished, but the experience gained counted for something, and no doubt another year we shall manage better. It was a great thing to get rid of the heat and smell of the oil lamps. The objects exhibited were quite up to the average, and as is always the case, the room proved very attractive.

In the Assembly Room there was a fine collection of Herbaceous Plants, and during the evening Mr. E. J. BAILLIE spoke of their cultivation and uses.

There was a Lantern Exhibition in the Sessions Court, by Mr. G. E. Thompson, who gave an interesting lecture, entitled "Rambles along the Riviera." We have been indebted on several former occasions to Mr. Thompson for very beautiful displays of Photographic Slides, which have been greatly appreciated.

The General Meetings of the past winter were as follows:—1889.

Nov. 7—"The Development of Machines," by PROF. Hele Shaw, of University College, Liverpool.

Nov. 28—"Some aspects of Poetry," by the Rev. Canon Morris, D.D. 1890.

Jan. 23—"Agricultural Experiments," by PROF. Ed. KINCH, F.C.S., of the Royal Agricultural College, Cirencester.

Feb. 19-" Heredity," by E. B. POULTON, Esq., F.R.S.

Mar. 6-" On Dictionaries," by T. N. BRUSHFIELD, Esq., M.D.

Apr. 24—Annual General Meeting—" Studies in Japanese Pictorial Art," by H. M. J. UNDERHILL, Esq., of Oxford.

It will be seen by the subjects treated in the General Lectures that the Literary Section has not been without influence. Several new names appear before us, and the attendance of Members has been very good. The Lectures given by Dr. Brushfield and Mr. Poulton were of exceptional interest. Both spoke on subjects which they had made completely their own, and although the Lecture entitled "Dictionaries" did not sound inviting, it proved full of instruction, and, in the hands of Dr. Brushfield, one of special literary interest. "Heredity" is one of the great topics of the day, and Mr. Poulton is one of the great authorities on the subject, so that we had a rare opportunity of hearing it well discussed.

The Sectional Meetings have been as follows:-

SECTION OF LITERATURE.

1889

Nov. 13—An Inaugural Address by the Chairman, THE LORD BISHOP OF CHESTER.

1890.

Jan. 6-"John Ruskin," by Mr. E. J. BAILLIE, F.L.S.

Feb. 10-" Translations and their value," by the REV. C. L. FELTOE, M A.

Mar. 10—"The Chester Mysteries and their connection with English Literature and the English Drama," by Mrs. Henry Sandford.

Mar. 27—"The Influence of Literature on Daily Life," by Mr. J. H. A. HALL.

Apr. 14-" Kingsley's Hypatia," by Mr. W. Shone, F.G.S.

You will observe that, with the exception of Mr. Shone and Mr. Baillie, this Section has been indebted for its Papers to Members who have come forward for the first time. The attendance has been good. Mrs. Sandford's Paper, which was of local interest, enlisted a large audience. who must have gone away impressed by the ability and research displayed in bringing together facts and coincidences well worth saving from oblivion. We can only hope other ladies may come forward with Papers of equal interest.

1889. APPLIED SCIENCE SECTION.

Nov. 14-" Engineering progress during the past year," by the Chairman, Mr. W. P. J. FAWCUS, C.E.

1800.

Jan. 9-" Some applications of Magnetism," by the Secretary, Mr. E. W. COWAN, A.M.I.C.E.

Apr. 17-"The new system of Industrial Motive Power Co-operation," by Mr. John Sturgeon, C.E.

1889. BOTANICAL SECTION.

Nov. 21 - "The Order Solanaceae, with special Notes upon the Potato," by MISS M. H. OKELL.

1890.

Jan. 16-" Leguminous Plants," by the Secretary, Mr. G. P. MILN.

Mar. 31-" Spring Flowers," by MR. LEO H. GRINDON, Manchester.

In connection with the Botanical Section of the Society there has been formed a Society of practical gardeners, called "The Paxton Society," which has met regularly on the first and third Saturdays of the month, for the purpose of exchanging ideas and reading Papers on Horticultural subjects. These Meetings take place in the Grosvenor Museum, and have been well attended. The subscription is very small, so as to enable all who take an interest in the subject to join for the purpose of improving and cultivating Botanical knowledge. Our Society looks on this affiliated Society as a very hopeful sign. The number of Members now belonging to the Paxton Society is 65, and we wish it every success.

1889. ZOOLOGICAL SECTION.

Dec. 5-" Notes on the Season 1889," by the Chairman, Mr. A. O. WALKER, and others.

Son.

Jan. 31—" Notes on the Heron and Heronries of Cheshire and North Wales," by MR. R. NEWSTEAD, Curator.

Mar. 20—"Types of Metamorphosis in the development of Crustaceae," by Mr. ISAAC C. THOMSON, F.L.S.

1889. GEOLOGICAL SECTION.

Dec. 12—"British Scenery in its relation to Geological Structure and Denudation," by Mr. Osmund W. Jeffs, F.G.S., Liverpool. 1890.

Feb. 6—"The condition of the World in relation to other celestial bodies, as revealed to us by the Telescope and the Spectroscope," by the Secretary, Mr. A. W. Lucas, F.R.G.S.

Apr. 3-"The Deluge: a tradition of the Glacial Period," by the Chairman, Mr. W. Shone, F.G.S.

1889. NATURAL PHILOSOPHY SECTION.
Dec. 19.—"Circulation of the Blood," by Mr. F. J. BONNALIE, L.D.S.

1890.

Feb. 13-"The February Sky," by MR. W. VINCENT.

Apr. 11—"The Atmosphere and its constituents in relation to Animal Life," by Mr. G. E. MACDONALD.

The Photographic Section will furnish a separate Report containing all particulars of their Meetings. We are indebted to this Section for assistance in illustrating a large proportion o the Papers read before the Society. Scientific subjects can in no way be so well illustrated as by photography. The lantern has replaced the large diagrams which used to hang on our walls, and the facility with which minute objects can be accurately reproduced by Photography and then enlarged by the lantern proves not only a saving of time and trouble, but introduces a wonderful certainty with regard to such forms and structures as have hitherto only been seen under the Microscope, and so remained the property of the few. We therefore record our best thanks to the Members of the flourishing Photographic Section for all it has done for our Society.

During the past winter, under the Oxford Extension Scheme, we have had a most interesting course of Lectures given by Mr. E. B. POULTON, F.R.S., on "The protective value of colour in animals." These Lectures were well attended, and afforded much sound instruction in a field of research full of interest. Those who were present must have enjoyed hearing so able a teacher.

Your Committee have met frequently during the past year, and have done all in their power to promote the best interests of the Society by affording every facility for the increase of that knowledge which tends to give fresh interest to the locality in which we live. They trust that their endeavours have met with the approval of the Members to whom they make this Report.

HENRY STOLTERFOTH, M.A., M.D., Scientific Secretary.

CURATOR'S REPORT FOR 1889-90.

THE additions to the Museum since April 16th, 1889, in point of numbers again exceed those of the previous year. They consist of many choice and rare species, a full list of which is given in this Report.

The following is a total abstract of the number of species and specimens:—

		Species Presented.	Species Purchased.	Total of Species.	Total of Specimens.
Echinodermata, &c,		2		2	3
Crustacea (Shrimps, &c.)		3		3	3
Arachnida (Spiders, &c.)		2		2	2
Coleoptera (Beetles)		92		207	476
Orthoptera (Grasshoppers, &c.)		3		3	3
Neuroptera (Dragon Flies, &c.)		2 '		2	2
Hymenoptera (including Wasp No	est				
Parasites)		28		84	227
Lepidoptera (Moths, &c.)		140		140	326
Coccidæ (Scale Insects)		9		9	
Hemiptera (Plant Bugs, &c.)		3		3	3
Diptera (House Flies, &c.)		2		95	358
Life-histories of Injurious Insects				53	53
Mollusca (Shells)		20		20	51
Pisces (Fish)		7		7	8
Reptilia		I		I	2
Aves (Birds)		27	3	30	47
Eggs and Nests		. 16		16	31
Mammalia (Animals)		4		4 .	IO
Geology		12		12	46
Miscellaneous					404
TOTAL		373	3	693	2055

All the Insects enumerated have been catalogued and arranged in their natural order in the cabinets provided for that purpose.

The collection of Bees and Wasps, and other Insects belonging to the *Hymenoptera*, have been rearranged and labelled. Insects belonging to various other orders have also undergone a thorough investigation, and have been, as far as practicable, classified and arranged in their natural order.

Fifty-three life-histories of various orders have been prepared, and prove of the greatest interest and value to those who visit the Museum. Many others are partly finished, and it is hoped that by the end of the present year your Curator will have added many more to the collection.

It is a matter of the greatest regret that all our exhibitive space is now occupied, consequently, further exhibits prepared must be stored away until additional space can be provided.

The same applies to the Geological collections, many of which are now lying in boxes in the basement rooms.

Two additional life-histories of Birds have been prepared, and another is nearly complete. Some of the Birds have been remounted upon the new blocks kindly presented by Mr. F. F. Brown, but the greater part are still upon the old mounts; however, in the course of a month or so, it is hoped that they will be completed, when some permanent style of labelling will be adopted.

Owing to our Library being very deficient in Zoological and other reference books, I am again considerably indebted to the following for the use of their valuable reference works, without which it would have been impossible to carry on good work:—Rev. E. A. PITCAIRN CAMPBELL, MR. W. HODGES, MR. SAMUEL RIGBY, DR. STOLTERFOTH, The MISSES TOMLIN, and MR. ALFRED O. WALKER.

It may be satisfactory to know that all the additions to the Society's Museum are catalogued up to date, and that a considerable amount of detail work has been carried on during the past year which it is unnecessary to quote, as a full account is given in the Curator's Diary, which can be seen on application.

I cannot close my Report without making mention of at least some few of the well-known Entomologists of the day who have kindly rendered such personal assistance as enabled me the better to complete some particular work which I had in hand at the time:—MISS ORMEROD, MR. EDWARD SAUNDERS, F.E.S., REV. CANON FOWLER, F.L.S., MR. J. W. DOUGLAS, F.E.S., and MR. G. B. BUCKTON, F.R.S., &c.

LIST OF ADDITIONS.

Number of ECHI				•		3.5-	т	TV	Siddall
2 Comatula rosacea 1 Pectinctaria belgica	••	• • (• •	• •	Бу	Mr.	Ä.	Ö.	Walker
1 1 ettimiaria beigia	••	••	••	• •	"	2,11.		٠.	vv anner
CRUSTAC	EA ((Crab	s, Shr	imp	S,	&c.)			
1 Amphithoe podoceroides	3				Ву	Mr.	A.	Ο.	Walker
I Gamarus locusta					,,		22		,,
1 Dexamine spinosa	• •	••	••	• •	,,		,,		21
ARAC	HNI	DA (S	Spide	rs, &	c.)				
1 Spider (sp. ?)	on Ca	radrin	 a cubi	cular.	is	Ву	M	r. B r. J.	. Toml
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By Mr. B. Tomlin— Number of Specimens, 6 Aphodius tesselatus By Mr. A. O. Walker—	EOPT	I N	By Mr.	Thos s. tiorhy	nci	hus 1	bici	pes	
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By Mr. B. Tomlin— Number of Specimens, 6 Aphodius tesselatus By Mr. A. O. Walker— 31 Species By Miss L. E. Tomlin— 4 Agathidium nigripenno 6 Species (unnamed) By Mr. J. Lyon Denson— 3 Calandra granarius		F	By Mr. Sy Mr. By Mr. A Proposition of the control of the contro	Thoses. tiorhy W. H phodi uediu conation Curat pecies	E. S. sius : s see a T. stor-	hus pharp depr miæ lypha Cocce s sols	picijoe, vessineu	pes Led us is	sham—
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By Mr. B. Tomlin— Number of Specimens, 6 Aphodius tesselatus By Mr. A. O. Walker— 31 Species By Miss L. E. Tomlin— 4 Agathidium nigripenme 6 Species (unnamed) By Mr. J. Lyon Denson— 3 Calandra granarius 3 Niptus hololeucus		F	By Mr. Compercian I O By Mr. 2 A I Q I D By the 5 S 6 R I O I E I A	Those s. tiorhy W. I phodicuediu conaticuedius curat pecies izotro thius	E. S. sius : siu	hus pharpdepremies ypha	oe, essineur e e e e e e e e e e e e e e e e e e	Ledus us us	sham—

NEUROPTERA (Dragon Flies, &c.)
.. By Mr. J. Arkle

3 Species The Curator

2

HYMENOPTERA (Bees, Wasps, &c.)

By the Curator—
Number of Specimens.

1 Nest of Vespa germanica (Wasp)
3 ", vulgaris ",
1 ", Britannica ",
14 Vespa germanica
12 ", vulgaris
12 ", Britannica

The following unique collection of Wasp Parasites, consist of various orders:—

5 Quedius puncticollis 2 Larvæ ditto

4 Crytophagus setulosus 6 , pubescens

I Choleva tristis
I Thyamis lurida

3 Pterostichus nulgaris2 Bradycellus verbasci

Leistus rufescens
 Homalota succicola

4 Crytoneura stabulans Fallen 6 Pupæ and ovæ of ditto

6 Homalomyia canicularis Linn 1 ,, vespinalis Meade (new to Science) By the Curator—

Number of

6 Decanthiptera inanis

4 Pupæ, larvæ, and ovæ of ditto

3 Phora rufipes 6 Pupæ of ditto

2 Larvæ of Volucella plumosa

Ovæ of ditto

I Aspilota concinna I Proctotrupes (?)

3 Uropoda elongala Hal (new to Britain.)

By Mr. A. J. Nixon, Manley— 3 Rhipiphorus paradoxus

By Rev. J. F. Buckler, Bidston Rectory—

I Embryo Nest of Vespa germanica (Wasp)

By Miss C. Tomlin— 3 Species Andrenidæ

By Mr. J. Arkle—

Odynerus spinipes
Ophion luteum (?)

LEPIDOPTERA (Moths, &c.)

By Mr. J. Arkle-Xylophasia xanthographa polyodon rurea Orgyia pudibunda Noctua festiva Agrotis tritici Apamea oculea Tryphæna pronuba 4 interjecta 4 orbona 2 janthina 2 Noctua umbrosa 2 rubi 2 Melanippe subtristata 6 fluctuata I Acronycta psi Amphipyra tragopogonis 3 2 Caradrina cubicularis Lomaspilis marginata 4 Thecla rubi Arctia menthastri lubricipeda Zygena filipendulx 3 4 8 Argynnis paphia adippe Larva Nyssia hispidaria

By Mr. J. Arkle-Noctua plecta Liparis salicis Rumia cratægata 2 Mania maura Satyrus megera pamphilus 2 C. Elinguaria Diloba cæruleocephala Plusia gamma 4 chrysitis Xanthia cerago 2 I Eubolia cervinaria Satyrus Tithonus I I Agrotis porphyrea Cidaria immanata 4 suffumata ,, 17 russata 2.2 6 unidentata Phlogophora meticulosa I 3 2 Liparis auriflua Coremia propugnata

3 Timandra amataria 1 Epione apiciaria

4 Anisopteryx Æscularia 1 Cheimatobia brumata 1 Hybernia defoliaria

LEPIDOPTERA-Continued.

	221120112	ZEIZ-OOM/MUCO!
By M	Ir. J. Arkle—	By the Curator— Number of
specin	nens.	Specimens.
I	Hybernia progemmaria	2 Amphydasis betularia (black
3	Peronea mixtana	vars.)
4	Lemnatophila phryganella	5 Larvæ of Geometra papilionaria
Ė	Tortricodes hyemana	Hibernia aurantiaria
5	Teras contaminana	6 Fidonia piniaria
4	Pionea forficalis	I Asthena luteata
2	Tortrix rosana	
I	,, viburnana	2 ,, camelina
I	,, xylosteana	2 Ellopia fasciaria
I.	,, sorbiana	1 Beudoterpna cytisaria
I	,, ministrana	1 Geometra papilionaria
Ī	Peronea aspersana	15 Ephestia Kuhniella (new to
4	Pterophorus trigonodactylus	Britain)
2	Scopula prunalis	1 Notodonta dictæa
I	,, lutealis	5 Hybernia aurantiaria
ī	7*7*	77
2	,, ouvaus Penthina pruniana	
		34 Common Species
I	Endrosis fenestrella	
	Ecophora (?)	By Miss C. Tomlin-
τ	Paraponyx stratiotalis	1 Polyommatus Argiolus
I	Lemnatophila phryganella	1 1 biyonimatus 21/8totus
I	Diurnea fagella	
I	Herminia tarsipennalis	By Mr. J. D. Siddall—
1	Phycis carbonariella	I Sphinx populi
1	Depressaria (?)	2 . 2
I	Herbula cespilalis	n re n 1 (Cl 1 1 1 15' 11
1	Pædisca corticana	By Mr. Robert Shepheard, Mickle-
2	Crambus inquinatellus	dale—
5	,, margaritellus	1 Larva of Acherontia atropus
2	Melia sociella	(Death's-head Moth)
	Phytometra ænea	
I		By Mr. H. B. Dutton-
	Ennychia octomaculata	Series larvæ of Pygæra buce-
	Batch of large empty ovæ (?)	phala
		F
	. m. a	Mr. Frank Bolland-
By A	Ir. Thos. Shepheard—	I Thyatira derasa
	Larvæ of Yponomeuter mali-	
	vorella	I Charocampa elpenor
1	Tortrix viridana	
I	Crambus pratellus	By Mr. G. E. Barber-
1	Uropteryx sambucata	Larvæ of Pieris brassicæ
	Species of various larvæ	
I	Cymatophora duplaris	
	Small prior a aupiar is	

COCCIDÆ (Scale Insects.)

	doddibil	(DOLLIO	*****	000	•,	
	Chionaspis fraxini Signoret				By the	Curator
	Dactylopius destructor				22	22
	Species of Lecanium				22	,,
2	Mytilaspis	• •	• •		2.2	29

And many Species not yet identified.

DIPTERA (Two-winged Flies.) 2 Species	Number of HEMIE	PTERA.
DIPTERA (Two-winged Flies.) 2 Species		By Miss L. F. Tomlin
Description of Injurious Insects By the Curator MOLLUSCA (Shells.) By Mr. B. Tomlin— Number of Specimens. 1 Tectura virginea 1 Helcion pellucidum 1 Chiton fascicularis 5 Lacuna divaricata 7 , pallidula 1 , puteolus Pupa ringens 4 Hyalina crystalina 3 , pura Corychium minimum By Mr. A. O. Walker— 1 Doris tuberculata 1 Clausilia laminata PISCES (Fish.) By Mr. A. O. Walker— 1 Butter Fish (Gunnellus cornubiensium) By Mr. A. O. Walker 1 Lump Fish (Cyclopterus lumpus) 1 Codish (Morhau collaris) 1 Skate (Raia batis) REPTILIA (Snakes, &c.) 2 Common Ring Snake (Natrix toryuata) By Mr. F. R. Bolland AVES (Birds.) By Mr. A. Cray- 1 Roach (Leuciscus rutilus) AVES (Birds.) By Lord Arthur Grosvenor—	3 openes	
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By Mr. B. Tomlin— Specimens. 1 Tectura virginea 1 tielcion pellucidum 1 Chiton fascicularis 5 Lacuna divaricata 7 , patlidula 1 , puteolus Pupa ringens 4 Hyalina crystalina 3 , pura Corychium minimum By Mr. A. O. Walker— 1 Doris tuberculata 1 Clausilia laminata PISCES (Fish.) By Mr. A. O. Walker 1 Butter Fish (Gunnellus cornubiensium) By Mr. A. O. Walker 1 Lump Fish (Cyclopterus lumpus) 1 Codfish (Morhau collaris) 1 Skate (Raia batis) REPTILIA (Snakes, &c.) 2 Common Ring Snake (Natrix toryuata) Hy Mr. S. W. Shrubsole— Number of Series Mactra stultorum Series Mactra stultorum , Lutraria elliptica , Pasmobia ferroensis , Fusus antiguns , Cardium echinatum Py Paludina contecta 8 Anadon cygnea (2 vars.) By Mr. A. Tatler 1 Angler Jun. (Lophis piscatorius) By Mr. B. Tomlin— 2 Snake-pipe Fish (Syngnathus anguineus By Mr. Guy— 1 Roach (Leuciscus rutilus) REPTILIA (Snakes, &c.) 2 Common Ring Snake (Natrix toryuata) By Mr. F. R. Bolland AVES (Birds.) His Grace The Duke of Westminster, By Lord Arthur Grosvenor—	50 Life-histories of Injurious Insects	By the Curator
By Mr. B. Tomlin— Specimens. 1 Tectura virginea 1 tielcion pellucidum 1 Chiton fascicularis 5 Lacuna divaricata 7 , patlidula 1 , puteolus Pupa ringens 4 Hyalina crystalina 3 , pura Corychium minimum By Mr. A. O. Walker— 1 Doris tuberculata 1 Clausilia laminata PISCES (Fish.) By Mr. A. O. Walker 1 Butter Fish (Gunnellus cornubiensium) By Mr. A. O. Walker 1 Lump Fish (Cyclopterus lumpus) 1 Codfish (Morhau collaris) 1 Skate (Raia batis) REPTILIA (Snakes, &c.) 2 Common Ring Snake (Natrix toryuata) Hy Mr. S. W. Shrubsole— Number of Series Mactra stultorum Series Mactra stultorum , Lutraria elliptica , Pasmobia ferroensis , Fusus antiguns , Cardium echinatum Py Paludina contecta 8 Anadon cygnea (2 vars.) By Mr. A. Tatler 1 Angler Jun. (Lophis piscatorius) By Mr. B. Tomlin— 2 Snake-pipe Fish (Syngnathus anguineus By Mr. Guy— 1 Roach (Leuciscus rutilus) REPTILIA (Snakes, &c.) 2 Common Ring Snake (Natrix toryuata) By Mr. F. R. Bolland AVES (Birds.) His Grace The Duke of Westminster, By Lord Arthur Grosvenor—		
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REPTILIA (Snakes, &c.) 2 Common Ring Snake (Natrix toryuata) By Mr. F. R. Bolland AVES (Birds.) His Grace The Duke of Westminster, By Lord Arthur Grosvenor—	I Skate (Raia batis)	
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AVES (Birds.) His Grace The Duke of Westminster, By Lord Arthur Grosvenor—	REPTILIA (Snakes, &c.)
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His Grace The Duke of Westminster, By Lord Arthur Grosvenor—		
His Grace The Duke of Westminster, By Lord Arthur Grosvenor—	AVES	(Birds.)
		, , , , , , , , , , , , , , , , , , , ,
	K.G.—	I Merganser (Mergus merganser)

Heron (Ardea cinerea)
Peregrine Falcon (Falco pere-

By Mr. Smith, Saighton Grange—
t Cuckoo (Cuculus canorus)
l Blue Back (Turdus pilaris)
l Barn Owl (Strix flammea)

grinus)

Golden Eye (Clangula glaucion) Little Grebe (Podiceps minor) Grey Wagtail (Montacilla Rayi)

By Mr. Cookson, Junr.—

I Spotted Crake (Crex porzana)

Crossbill (Loxia curvirostra)

I Long-eared Owl (Asio otus)

AVES-Continued

By Mr. James Clutton-Number of Specimens.

Water Rail (Rallus aquaticus)

Blue Tit (Parus caruleus)

By Mr. R. P. Bradbury-2 Cole Tit (Parus ater)

By Mr. A. O. Walker-

I Blue Tit (Parus caruleus)

Water Rail (Rallus aquaticus)

,, Ouzel (Cinclus aquaticus) Longtailed Tit (Parus caudata)

By Mr. R. Newstead, Senr .-Life History of the Rook (Corvus frugilegus), Male, Female, Nest, and Eggs.

Tree Creeper (Certhia famili-

Redbreasts (Erithacus rubecula)

Great Tit (Parus major) Starling (Sturnus vulgaris)

By Mr. A. J. Nixon-

2 Long-tailed Tit (Parus caudata)

By Mr. Stretch, Ledsham-I Hooded Crow (Corvus cornix) By Miss C. Tomlin-Number of

Specimens.

Nest and 3 Eggs of Redbreast (Erithacus rubecula)

By Master Ernest Javne-I Dipper (Cinclus aquaticus)

By Mr. G. R. Griffith— 2 Common Tern (Sterna fluvia-

By Mr. R. O. Orton-I Waxwing (Ampelis garrulus)

Purchased-

I Curlew Sandpiper subarcuata)

Partridge (*P. cinerea*)
Corn Crake (*Crex pratensis*)

By Dr. W. H. Dobie-

3 Little Tern (Sterna minuta)

Brambling (Fringilla montafringilla)

Merlin (Falco Æsalon)

By Mr. Hugh Lyle Smyth-I Green Sandpiper (Totanus ochropus)

EGGS AND NESTS.

By His Grace the Duke of Westminster, K.G .-

I Heron (Ardea cinerea)

By Mr. Smith, Saighton Grange— 1 Nest and 4 Eggs of the Kestrel

(Falco tinnunculus)

Sparrow Hawk (Accipiter nisus) Nest and 3 Eggs Carion Crow

(Corous cornix) Eggs Little Grebe (Podiceps

minor)

By Mr. S. J. R. Dickson-

1 Nest and 10 Eggs Great Tit (Parus major)

Nest of Common Wren (Troglodytes parvulus)

By Mr. R. P. Bradbury-

Nest and Eggs of Chiff Chaff (Phylloscopus trochilus) Nest and Eggs of Willow Wren

(Phylloscopus trochilus)

Nest and Eggs of Black-headed Bunting (Emberisa melanocephala)

By Mr. G. R. Griffith— 4 Eggs House Sparrow (Passer domesticus)

By Miss C. Tomlin-I Redbreast (Erithacus rebecula)

By Mr. A. Fuller-1 Abnormal Egg

MAMMALIA (Animals.)

By Mr. G. J. Hill, Blundell Sands-Number of Specimens.

I Great Bat (Scotophilus noctule)

By Mr. A. J. Nixon, Manley-6 Great Bat (Scotophilus noctule)

By Mr. A. O. Walker-

I Long-eared Bat (Plecotus auritus)

Mr. T. Myddleton-

Number of Specimens.

I Shrew Mole or Water Shrew (Sorex fodiens)

By Mr. Lloyd Fletcher-

I Albino Mole (Talpa Europæa)

By Rev. C. Wolley-Dod-I Red Bank-Vole (A. glareolus)

GEOLOGY.

By Halkyn Mining Co., Limited, Halkyn-

of Galena 13

" Chert

Encrinital Limestone

Mountain Limestone containing Producti

Mountain Limestone, Water-

Quartz (various)

By Mr. E. Myddleton-

Large Quartz Crystal (Coal Measures?)

Sphenopteris (sp.?), fine cast and impression.

Stalactite

By Mr. A Rylands-

Molar (Elephas primigineus) Several fragments of Drift Shells

MISCELLANEOUS.

By Mr. Thos Shepheard-I Insufflator

Human Scull

2 Vertebra

By Mr. W. H. Okell-2 Large Glass-top Boxes

By Mr. F. F. Brown-302 Polished Blocks for Birds By Mr. H. B. Dutton-

Portion of Horn of the Red Deer

By Dicksons, Limited-

3 Young Forest Trees for rearing Insects upon

R. NEWSTEAD, F.E.S., CURATOR.

April 21st, 1890.



The Hon, Treasurer in account with the Chester Society of Natural Science and Literature, for the Year ending April 30th, 1890.

	Name of		
or 6513	615		1 01 6513
1 6	1 6 ··	Balance	
1 2	:	" Excursion Account	
9	:	", Balance on Evening Meetings Account	
0	:	Congress	
	al	", Donation to Funds of International Geological	
0 10	:	National Footpaths Preservation Society o 10	" Sale of Proceedings and Library Catalogues o 2 1
1 1	:	Palæontographical Society	141 5 0
		" Subscriptions—	546 ,, 1889-90, at 5/· 136 10 0
5 10	15 10	" Postages	16 ,, 1888-89, at 5/ 4 o o
0 12	50 12	" Printing, Advertising, Stationery, &c	2 ,, 1887-88, at 5/ 0 10 0
3 14	13 14	" Natural History Museum	I for 1886-87, at 5/ o 5 o
0 14	0 14	" Library—New Books, &c	" Subscriptions—
0	0 09	To Grosvenor Museum Management Fund	By Balance from 1888-89 18 3 o
s, S	*	O.	Dr. £ s. d. £ s. d.
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30TH MAX, 1890 - Examined and jound corvet, siewing a balance in hand of Nine Pounds One Shilling and One Penny.

J. ROWE DUTTON; How. AUDITORS.

BERESFORD ADAMS,

JOHN MILLS, Hon. Treasurer.

"KINGSLEY MEMORIAL" FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1890.

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f s. d.	To Balance 40 8 0 By	lydends 19 14 (1		bullets triced in							*			1 7 7 7 7 1	The state of the s

16TH APRIL, 1890-Examined and found correct,

W. VINCENT,

AUDITOR.

EDMUND J. BAILLIE, Hon. Treasurer.

PHOTOGRAPHIC SECTION.

REPORT.

In presenting their second Report, the Committee desire to acknowledge the valuable services rendered to the Section by Mr. Geo. Frater, and to express their regret that his removal from Chester caused his resignation of the Honorary Secretaryship, in which office he contributed much to any measure of success which may have attended the formation of a Section devoted to Photography.

The Committee feel that there is room for increased interest in the work of the Section, and would be pleased to see the Meetings (especially when technical subjects are treated of) more numerously attended, the Dark Room more frequently used, and the Members availing themselves of the photographic journals and books placed in the library—determination to excel on the part of individual Members being the only guarantee of real progress in the Section.

It is hoped that the Meetings of the Photographic Convention, to be held in Chester during the last week of June, may be the means of interesting large numbers in Photography and lead to an increased membership, by inducing many to take up a pursuit which, if loyally followed, cultivates the artistic and scientific perceptions of those who engage in it. There are many ways in which the Photographic Section may be a help to the Society of which it forms a part, and, through that Society, add its mite to the sum of human knowledge,—notably by obtaining negatives of Geological Formations, abnormal conditions in the Animal and Vegetable Kingdoms, and recording facts in Microscopical Research. All these are possibilities to the devoted photographer, in addition to the pleasure which may be given to thousands by reproducing the beauty and grandeur of natural scenery.

The Committee recognize, with thanks, the kindness of the gentlemen who contributed, by reading Papers, &c., to the success of the undermentioned Meetings:—

1889.

Dec. 9.—"Illustrated Boston," by The Boston Camera Club, U.S.A., and Exhibition of "Amateur Photographer" Competitive Prints, Animal Life, and Inland Scenery.

1800.

Jan. 2.—Exhibition of Lantern Slides, &c., by Members of the Section.

" 27.—"Old Normandy," by MR. G. E. THOMPSON.

Mar. 15 .- "The Land of the Midnight Sun," by MR. G. F. WYNNE.

Apr. 21.-"A New Actinometer," by MR. E. G. BALLARD, A.R.S.M.



SECTION. PHOTOGRAPHIC

BALANCE SHEET TO 31st MARCH, 1890.

To Balance from Mr. Geo. Frater		d.	0	9	0	10	~1	1	4	1	10	1
EAYMENTS. S. d. By Mr. Thompson for Lecture "Old Normandy" Citure 3 15 0 " Mr. Jones (a gratuity) Postages Rotographic Papers Carriage Balance		s.	2	12	0	10	4	4	2	ı	19	ı
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J. ROWE DUTTON.

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Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition, and which have already been advertised in local and other newspapers:—

1890.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above Prizes, the Committee have decided that, in order to encourage scientific research, they will make Grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

** All Collections must be made in Cheshire or North Wales, or the Seas adjoining thereto, by the persons competing.

The Collections, Essays, or Notes of Observations, may be sent in to either of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

Intending Competitors should obtain all particulars, and the conditions under which the Prizes are offered, from either of the General Secretaries; and all Collections, &c., must be sent in to either of them on or before the 1st September in each year.

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To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary, according to Rule 8.

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Fletcher, Miss Fletcher, Miss Eva B. Fluitt, Miss F. C. Frox, Mr. Francis, C.E. Francis, Mr. F. E. Frater, Mr. G: Frater, Mr. Jas. Frater, Mr. Diss. Freeman, Mr. C. E. Frith, Mr. Philip J. Frith, Mr. Philip J. Frost, Sir Thomas G, J. P. Frost, Lady Frost, Mr. J. M. Frost, Mr. J. M. Frost, Mr. T. Gibbons Frost, Mr. T. Gibbons Gane, Miss. Gardner, Mrs W. A. Gardner, Miss Constance Gardner, Miss Ethel. Gardner, Miss Mabel Gardner, Miss Mabel Gardner, Mr. Stanley	
Fletcher, Miss Fletcher, Miss Eva B. Fluitt, Miss F. C. Frox, Mr. Francis, C.E. Francis, Mr. F. E. Frater, Mr. G: Frater, Mr. Jas. Frater, Mr. Diss. Freeman, Mr. C. E. Frith, Mr. Philip J. Frith, Mr. Philip J. Frost, Sir Thomas G, J. P. Frost, Lady Frost, Mr. J. M. Frost, Mr. J. M. Frost, Mr. T. Gibbons Frost, Mr. T. Gibbons Gane, Miss. Gardner, Mrs W. A. Gardner, Miss Constance Gardner, Miss Ethel. Gardner, Miss Mabel Gardner, Miss Mabel Gardner, Mr. Stanley	
Fletcher, Miss Fletcher, Miss Eva B. Fluitt, Miss F. C. Fox, Mr. Francis, C.E. Francis, Mr. F. E. Frater, Mr. G. Frater, Mr. Jas. Frater, Miss Freeman, Mr. C. E. Frith, Mr. Philip J. Frith, Mr. Philip J. Frith, Mr. Jas. N. Fromont, Mr. W. H. Frost, Sir Thomas G, J. P. Frost, Lady Frost, Mr. J. M. Frost, Mr. J. M. Frost, Mr. T. Gibbons Frost, Mrs. T. Gibbons Gane, Miss. Gardner, Mrs. W. A.	

Garnett, Mrs	The Rectory, Christleton
Garside, Mr. F	Hamilton street, Hoole
Gibson, Mr. J. M	Buckley, via Chester
Gibson, Miss Ada	Crane street
Gilbert, Mr. Leonard, J.P *Giles, Rev. W. T., M A., F.R.	Egerton villa, Liverpool road
*Giles, Rev. W. T., M A., F.R.	G.S., The Asylum, Chester
Glascodyne, Miss	The Queen's School, City walls
Golder, Mr. S	31 Nicholas street
Goodhart, Mrs. E. S	96 Watergate Flags
Gorst, Miss	Spring villa, Liverpool road
*Granger, Mr. F. M., M.R.C.S.,	96 Watergate Flags Spring villa, Liverpool road L.R.C.P.L18 Nicholas street
Grantham, Rev. H	S. Marv's Rectory
Green, Mr. T. E.	Parr's Banking Co., Wrexham
Gregg, Mr. W.	2 Watergate square
Griffith Mr G R	20 Hough green
Griffith, Mrs. G. R.	
Griffith, Mr. N. de B.	
Griffiths, Mr. Jno	Upton park
Griffiths, Mrs. John	· · · · · · · · · · · · · · · · · · ·
Griffiths, Mrs. John Griffiths, Mr. T. W	5 Hough green
Griffiths, Miss	42 Watergate street
Griffiths, Mr. John	
*Griffiths, Rev. T. Turner, M.A.	Derby villa. Clifton Wood, Bristol
*Grocott, Mr. E. A	Frodsham street
Gunton, Miss	Rimmersfield, Liverpool road
,	, , ,
Haining, Mr. W., M.D	82 Foregate street
*Hall, Mr. I. H. A.	Old Bank House
Hall, Mrs.	
Hamel, Miss Hamilton, Mr. A., M.R.C.S	9 Abbey street
Hamilton, Mr. A., M. R.C.S	16 White friars
Hankey, Mr. Lee	Rock Mount, Liverpool road
Hankey, Miss C. M	Sunny Bank, Queen's park The Blue Coat School, The Northgate
Hanningan, Mr. Jno	Sunny Bank, Queen's park
Hardy, Mr. J. E.	. The Blue Coat School, The Northgate
Hardy, Mrs.	
Harrison, Miss	20 Lorne street
Harrison Mrs Ino	Ashton House New Crane street
Harrison, Mr. N	. Highfield, Curzon park
Harrison, Mr. N. Harrison, Mrs. N. Haswell, Mr. G. H. Haswell, Mrs. G. H. Henderson, Mr. J. E.	
Haswell, Mr. G. H	41 Liverpool road
Haswell, Mrs. G. H	
Henderson, Mr. J. E	19 Pathway, Queen's park
Henderson, Mr. Wm	II Union walk
Henshaw, Mr. T.	The Hollies, Liverpool road
Henshaw, Mr. T. A.,	••),
Henshaw, Miss Edith E	. 12 12
Henshaw, Miss Florence M	., ,,
Henderson, Mr. Wm. Henshaw, Mr. T. Henshaw, Mr. T. A., Henshaw, Miss Edith E. Henshaw, Miss Florence M. Henson, Miss E.	The Studio, Bridge street row
Heppel, Miss	8 Hough green Delamere House, Liverpool road
Herne, Colonel	. Delamere House, Liverpool road
Hewison, Mr. Hv. T.	White Friars House
Hewitt, Mr. David L	Abbey House, Northgate street
Hickman, Mr. F. F	. 8 Northgate street
Hickman, Miss	17 The Groves
Higgins, Miss Eva	The Manor, Overleigh
Higgins, Miss Millie	19

TT 1 35 TT TT	
Higgins Mr. W. H.	St. Martin's-in-the-fields
Highest Mrs	14 Hough green
Triangle Mis.	14 Hough green
Hignett, Mrs. Hignett, Mr. A. H. Hignett Mrs. T. H.	OTT 1 C
Hignett Mrs. T. H	, 18 Hough Green
Hillyard, Rev. Canon, M.A	Okelora, Dampton, N. Devon
Hincks, Mr. J. W.	.61 Northgate street
Hobday, Mr. J.	Alexandra villa, Liverpool road
Hobday, Mr. Jas	22 The Groves
*Hodges Mr W	21 Hough Green
TI-1 Mi- A C	31 Hough Green
*Hodges, Mr. W. Hodges, Miss A. G. Hodges, Mr. T. R.	, ,,
Hodges, Mr. T. R.	• _,,,
Hodkinson, Mr. E	35 Pepper street
*Holland, Mr. R., F.L.S	Mill Bank House, Frodsham
Holme, Rev. A. P., M.A.	The Rectory, Tattenhall
Holmes, Mr. J. G. Hoole, Rev. W. Spooner, M.A.	Belmont, Curzon park
Hoole, Rev. W. Spooner, M.A.	Thornton Rectory, near Chester
Honkins Mrs	22 Queen street
Hopkins, Mrs	16 Newgate street
Hoston Mr. H. D	TA Brook street
Horton, Mr. H. R.	, /4 Drook street
Hostage, Mr. Geo. B.	, 28 Eaton road
Hostage, Mrs. Geo. B	•
Hostage, Miss	.22 Eaton road
Howson, Rev. J. F., M.A	.Egerton House, Upper Northgate street
Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S.	. 11 11 11
Howson, Miss M	. ,, ,, ,,
Howson, Rev. G. L. M.A	.The Vicarage, Crewe
Hudson Mrs R S	Bache Hall, Chester
Hughes, Mrs. McKenny	4 Cintra terrace Cambridge
Hughes Mr Thos Conn B A	Town Hall Manchester
Hughes, Mr. Thos. Cann, B.A *Hughes, His Honour Judge, Q C	TIC stan House Dec bills
*Hugnes, His Honour Juage, Q C	. Unington House, Dee nins
Hughes, Mrs.	
Hughes, Mrs	. City road
Hughes, Mrs. Hughes, Mr. John Huke, Mr. J. W.	. City road .89 Foregate street
Humberston Miss	. City road .89 Foregate street . Newton Hall. Chester
Humberston Miss Humphreys, Mr. E. Noel	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole
Humberston Miss Humphreys, Mr. E. Noel	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas.	City road So Foregate street Newton Hall, Chester B Derby place, Hoole South Bank, Frodsham
Humberston Miss Humphreys, Mr. E. Noel	City road So Foregate street Newton Hall, Chester B Derby place, Hoole South Bank, Frodsham
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas.	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole .South Bank, Frodsham
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas.	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole .South Bank, Frodsham
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas.	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole .South Bank, Frodsham
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Javne, Mr. Ernest	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole .South Bank, Frodsham,,, 21 Hough green .Whitewell Rectory, Whitchurch (Salop) .The Palace, Dee side
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C.E.	City road 89 Foregate street Newton Hall, Chester 8 Derby place. Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest. *Jebb, Mr. G. R., C.E. *Jebb, Mr. O. W. F.G.S.	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham " 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Oueen's road, Rock Ferry
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C. E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole .South Bank, Frodsham 21 Hough green .Whitewell Rectory, Whitchurch (Salop) .The Palace, Dee side .Fairyfield, Great Barr, Birmingham .12 Queen's road, Rock Ferry .The Studio, Bridge street
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C. E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole .South Bank, Frodsham 21 Hough green .Whitewell Rectory, Whitchurch (Salop) .The Palace, Dee side .Fairyfield, Great Barr, Birmingham .12 Queen's road, Rock Ferry .The Studio, Bridge street
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C. E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole .South Bank, Frodsham 21 Hough green .Whitewell Rectory, Whitchurch (Salop) .The Palace, Dee side .Fairyfield, Great Barr, Birmingham .12 Queen's road, Rock Ferry .The Studio, Bridge street
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C.E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine Jennings, Mrs. Jephcott, Mr. Charles	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North)
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C.E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine Jennings, Mrs. Jephcott, Mr. Charles Johnson, Major	City road .89 Foregate street .Newton Hall, Chester .8 Derby place, Hoole .South Bank, Frodsham
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest. *Jebb, Mr. G. R., C.E. *Jeffs, Mr. O. W., F. G.S. Jennings, Mr. Constantine Jennings, Mr. Constantine Jennings, Mr. Charles Johnson, Major Johnson, Mrs.	City road 89 Foregate street Newton Hall, Chester 8 Derby place. Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 34 King Street 11 Bertram road, Sefton park, Liverpool
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest. *Jebb, Mr. G. R., C.E. *Jeffs, Mr. O. W., F. G.S. Jennings, Mr. Constantine Jennings, Mr. Constantine Jennings, Mr. Charles Johnson, Major Johnson, Mrs.	City road 89 Foregate street Newton Hall, Chester 8 Derby place. Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 34 King Street 11 Bertram road, Sefton park, Liverpool
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C.E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine Jennings, Mrs. Jephcott, Mr. Charles Johnson, Mrs. Johnson, Mrs. Johnson, Mrs. Johnson, Mr. *Johnson, Mr.	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 31 Lorne street (North) 34 King Street 11 Bertram road, Sefton park, Liverpool St. Paul's School, Boughton 9 York villas, Lorne street
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C.E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine Jennings, Mr. Constantine Jennings, Mr. Charles Johnson, Major Johnson, Mrs. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr. *Johnson, Mr	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 14 King Street 11 Bertram road, Sefton park, Liverpool St. Paul's School, Boughton 19 York villas, Lorne street 1 King's buildings
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest. *Jebb, Mr. G. R., C.E. *Jefbb, Mr. O. W., F.G. S. Jennings, Mr. Constantine Jennings, Mrs. Jephcott, Mr. Charles Johnson, Mrs. Johnson, Mrs. Johnson, Mr. *Johnson, Mr. *Johnson, Mr. M., L.D.S.I. Jones, Miss Maggie Jones, Miss Maggie Jones, Mr. H. Watson	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 34 King street 11 Bertram road, Sefton park, Liverpool St. Paul's School, Boughton 9 York villas, Lorne street 1 King's buildings 11 Grosvenor park road
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C.E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mrs. Jennings, Mrs. Jenhcott, Mr. Charles Johnson, Mrs. Johnson, Mrs. Johnson, Mrs. Johnson, Mrs. Johnson, Mr. Jones, Miss Maggie Jones, Mr. H. Watson Jones, Miss S. H.	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 14 King Street 11 Bertram road, Sefton park, Liverpool 15. Paul's School, Boughton 19 York villas, Lorne street 11 King's buildings 11 Grosvenor park road 11 Kingston house, Liverpool road
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst. Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C. E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine Jennings, Mrs. Jephcott, Mr. Charles Johnson, Major Johnson, Mrs. Johnson, Mr. *Johnson, Mr.	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 134 King street 11 Bertram road, Sefton park, Liverpool St. Paul's School, Boughton 19 York villas, Lorne street 11 King's buildings 11 Grosvenor park road Kingston house, Liverpool road 23 Seller street
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst. Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C. E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine Jennings, Mrs. Jephcott, Mr. Charles Johnson, Major Johnson, Mrs. Johnson, Mr. *Johnson, Mr.	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 134 King street 11 Bertram road, Sefton park, Liverpool St. Paul's School, Boughton 19 York villas, Lorne street 11 King's buildings 11 Grosvenor park road Kingston house, Liverpool road 23 Seller street
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst, Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C.E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mrs. Jennings, Mrs. Jennings, Mrs. Johnson, Mrs. Johnson, Mrs. Johnson, Mrs. Johnson, Mr. Johnson, Mr. M., L.D.S.I. Jones, Miss Maggie Jones, Mr. H. Watson Jones, Miss S. H. Jones, Mrs. A. W.	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 34 King Street 11 Bertram road, Sefton park, Liverpool St. Paul's School, Boughton 9 York villas, Lorne street 1 King's buildings 11 Grosvenor park road Kingston house, Liverpool road 23 Seller street The Northgate
Huke, Mr. J. W. Humberston Miss Humphreys, Mr. E. Noel Hurst. Mr. Jas. Hurst, Mrs. Jas. Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C. E. *Jeffs, Mr. O. W., F.G.S. Jennings, Mr. Constantine Jennings, Mrs. Jephcott, Mr. Charles Johnson, Major Johnson, Mrs. Johnson, Mr. *Johnson, Mr.	City road 89 Foregate street Newton Hall, Chester 8 Derby place, Hoole South Bank, Frodsham 21 Hough green Whitewell Rectory, Whitchurch (Salop) The Palace, Dee side Fairyfield, Great Barr, Birmingham 12 Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 34 King Street 11 Bertram road, Sefton park, Liverpool St. Paul's School, Boughton 9 York villas, Lorne street 1 King's buildings 11 Grosvenor park road Kingston house, Liverpool road 23 Seller street The Northgate

Keartland, Miss	. 2 Egerton terrace, Hoole road
Keeling, Miss Alice	Minworth, near Birmingham
Kelham, Mr. Augustus	.3 Eversley park, Liverpool road
Kelly, Miss E. J	. 12 Trinity street
Kelsall, Miss A. H	. Abbot's court, Liverpool road
Kemp, Mr. Geo	. 59 Bridge street
Kenyon, Mr. G. A., M.B	, Flookersbrook
King, Mr. H. W., M.D	. 18 Newgate street
King, Mrs.	Tachbrook Mallory, Leamington
Kingsley, Miss	. Tachbrook Mallory, Leamington
Kingsley, Mr. G. A	. ,, ,,
Kingsley, Mr. G. A. Kinsey, Mr. T. E. Morris	. Westminster buildings
Kirkpatrick, Mrs	Ash Grove
Knowles, Mr. E. R Kynnersley, Mr. E. M. Sneyd .	. Grosvenor street
Kynnersley, Mr. E. M. Sneyd .	.24 Castle street
Lacy, Mrs.	
Lamont, Mr. A.	3 City Walls (West)
Lamont, Mr. A., Junr	29
I amont Alice	
Latham, Mr. J. S. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S.	.Green Bank, Liverpool road
*Lawrence, Dr. A	The Asylum, Chester
Lees, Mr. W., M.R.C.S	. 116 Foregate street
Lewis, Nev. J. S., M A	Gunsheid vicarage, weishpool
Lightfoot, Mrs. W. M	. York villas, Liverpool road
Linnell, Mr. Geo. F.	The Old Bank, Chester
Lipsham, Mr. F	. 17 Pepper street
Lloyd, His Honour Sir Horatio	Stanley place
Lloyd, Lady	32 Prince's square, Bayswater, London
Lloyd, Mr. E. Honoratus	. 32 Prince's square, Bayswater, London
Lloyd, Mrs. E	Abbot's mount, Liverpool road
Lloyd, Miss M. E. Lockwood, Mr. T. M., F.R.I.B.A	20 Lorne street
Lockwood, Mr. T. M., F.R.I.B.A	80 Foregate street
Lowe, Mr. G. B.	. 25 Hough green
Lowe, Miss C. H.	, ,, ,,
TOUTO, TITLE ALO TO TYPE TYPE !	21 Granville road, Cambrian view
F.I.C., F.C.S.	21 Gillion Ioway Cambrida III
Lowe, Mrs. W. F. Lowe, Mr. Jas. F., B.A.	
Lowe, Mr. Jas. F., B.A.	Dee Banks
*Lucas, Mr. A. W., F.R.G.S. Lund, Mrs. Luxmoore, Mr. E. B., J.P., F.G.S	7 Victoria pathway, Queen's park
Lund, Mrs.	Thorpe villa, Liverpool road
Luxmoore, Mr. E. B., J.P., F.G.S	Bryn-Asaph, St. Asaph
Lynch, Rev. F	Grosvenor park road
*35 1 11 35 C	A 1 3
*Macdonald, Mr. G	. 3 Abbey square
Manley, Mr. H	Aston, Nantwich
*Manning, Mr. J. B	The Governor's House, H.M. Prison,
35	Pentonville, London
Manning, Miss Edith	18 Opper Northgate street
Mann, Mr. A., M.B.	
Marsden, Miss	
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Nicholls, MissDeaconess House, Nicholas street
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		BOTANICAL SECTION.
В	200	Braithwaite (R.) The Sphagnaceæ or Peat-Mosses of Europe and North America
		GEOLOGICAL SECTION.
G		Callaway (C.) On the present state of the Archæan Controversey in Britain, 1889; On Secondary Minerals in the Crystalline Rocks of the Malvern Hills, 1889
G		Journal of the Liverpool Geological Association, Vol. VIII
G	131	Proceedings of the Geologists' Association, Vol. XI., 5 Parts1889-90
G	95	Proceedings of the Liverpool Geological Society, Part 1, Vol. VI1888-89
G	152	Seventh Annual Report of the United States Geological Survey, 1885-86 (Illustrated) 1888
G	116	Transactions of the Manchester Geological Society, Vol. XX., Parts 8 to 171889-90
G	85	Vol. XLIII. of the Palæontographical Society, issued for the year 1889, containing— Jones and Hinde's Cretaceous Entomostraca (Supplement)
		Hudleston's Jurassic Gasteropoda Buckman's Inferior Oolite Ammonites Whidborne's Devonian Fauna of the South of England
		MICROSCOPICAL SECTION.
M		Journal of the Liverpool Microscopical Society, Vol. I., No. 3
M		Transactions and Annual Report of the Man- chester Microscopical Society for 1888 and 1889
		PHOTOGRAPHIC SECTION.

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ZOOLOGICAL SECTION

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Z	Poulton (E. B.) An enquiry into the cause and extent of a special colour—relation between certain exposed Lepidopterous Pupæ and Surfaces which immediately surround them; Abstract of same; Notes upon, or suggested by, the colours, markings, and protective attitudes of certain Lepidopterous Larvæ and Pupæ, and of a Phytophagous Hymenopterous Larvæ; The essential nature of the colouring of Phytophagous Larvæ (and their Pupæ), with an account of experiments upon the relation between the colour of such Larvæ and that of their food plants; On the protective value of colour and markings in Insects; Theories of Heredity; Notes upon Lepidopterous Larvæ; Mimicry; A further enquiry into a special colour—relation between the Larvæ of Smerinthus Ocellatus and its Food Plants; Notes upon Lepidopterous Larvæ, &c., including a complete account of the life-history of the Larvæ of Sphinx, Convolvuli, and Agliatau; Further notes upon the markings and attitudes of Lepidopterous Larvæ, together with a complete account of the life-history of Sphinx, Ligustri, and Selenia illunaria (Larvæ); Notes in 1885 upon Lepidopterous Larvæ and Pupæ, &c. True Teeth in the young Ornithorhynchus paradoxus; On the Tongues of the Marsupialia; The Structures connected with the Ovarian Ovum of Marsupialia and Monotremata; The True Teeth and Horny Plates of Ornithorhyn-
	nchus. Presented by the Author.

Z	Second Report on the Fauna of Liverpool Bay	
	and neighbouring Seas (L. M. B. C. Reports,	
	No. 11.) Presented by A. O. Walker, Esq	1

MISCELLANEOUS SECTION.

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X	Annalen des K.K.	Naturhistorischen	Hofmuseums,	
	Vienna, Bend IV.	., No. 4		1889

- X Annual Report and Proceedings of the Liverpool Science Students' Association, Session 1888-89
- X 99 Annual Report and Transactions of the North Staffordshire Naturalists' Field Club and Archæological Society, 1889.......

X	107	Annual Report of the Board of Regents of the Smithsonian Institution, 1886, Part 1 1889
X		Argument on the question of the validity of the Treaty of Limits between Costa Rica and Nicaragua, on behalf of the Government of Costa Rica, 1887; Reply to the argument of Nicaragua, 1887; The case of the Republic of Nicaragua
X		Bericht des Vereines für Naturkunde Zu Kassel, XXXIV. und XXXV
X		Boletin de la Academia Nacional de Ciencias en Cordoba (Argentine Republic), 1 Part 1889
X		Journal of the Trenton Natural History Society (U.S.A.), Vol. II., No. 1
Х		Kinch (E.) Field Experiments, Barley and Pasture (Royal Agricultural College)
X		Memoires de la Societé des Naturalistes de Kiew (Russia) 2 Parts
X		North American Fauna, Nos. 1 and 2 (U.S. Department of Agriculture) 1889
X	27	Proceedings and Transactions of the Natural History Society of Glasgow, Vol. II., Part 2, Vol. III., Part 1
X	25	Proceedings of the Bristol Naturalists' Society, Vol. VI., Part 1 1888-89
X	24	Proceedings of the Literary and Philosophical Society of Liverpool, Vols. XLI., XLII., and XLIII
X	26	Proceedings of the Liverpool Naturalists' Field Club for 1889 1890
X	29	Report and Proceedings of the Manchester Field Naturalists' and Archæologists' Society for 1888
X		Report and Transactions of the Cardiff Naturalists' Society, 2 Parts
X		Report of the British Association for 1889 1890
X		The English Sparrow in North America, especially in its relations to Agriculture (U.S. Department of Agriculture)
		"The Naturalist," the Monthly Parts of



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MONDAYS	7	to	8	p.m
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Notice.—Copies of the Society's Proceedings, (No. 1, price 6d., Nos. 2 and 3, price 2/6 each); also the Catalogue of the Society's Library, with recent additions (price 1d., may be obtained from Mr. John Mills, Eastgate Row; Mr. G. R. Griffith, Grosvenor Street; or the Curator, Grosvenor Museum.



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TWENTIETH

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,



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TWENTIETH ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS for 1890-91,

AND THE

LIST OF MEMBERS FOR 1891-92,

ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR COMPETITION, &c.



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1.—That the Title of this Society be "The Chester Society of Natural Science and Literature," and that its object be the promotion of the study of Natural Science by Lectures, Field Meetings, the Reading and Discussion o. Papers, and other suitable means.

2.—That the Officers be a President, Six Vice-Presidents, Treasurer, Three Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above-named Officers, who shall be $Ex ext{-}Office$ Members, and Six other Members of the Society—the President or a Vice-President the Chairman; and that the practical management of the Society be vested in the Committee, subject to the following Rules:—

4.—That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee previous to a General Meeting.

5.—That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life

Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five.

7.—That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8.--That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year,

9.—That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10.—That the Committee shall meet monthly for the despatch of business; Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed No Paper shall be read without the previous sanction of the Committee. Objects of scientific interest may be exhibited at the Evening Meetings.

13.—That at the Annual General Meeting, which will be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six Days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sapetiqued by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

Your Committee, in presenting their Annual Report, have satisfaction in stating that the Society numbers 683 Members. We have lost by death and removal 41. Amongst these we mention with regret the death of our Honorary Member, H. Bowman Brady, Esq., F.R.S., &c., &c. He was known to many of our Members, some of whom he incited to work at that most interesting group of lowly forms, the Foraminifera, with which group his name will always be associated in connection with the "Challenger Report on the Deep-Sea Soundings."

We have within the last year added to our list 63 new Members. This points to the fact that our Society still holds its position, and affords to a large number of our fellow-citizens a centre of intellectual communication and recreation, which meets a want amongst those who are daily engaged in occupations which in themselves might become monotonous. Our Society opens to them the field of Nature with all its wonderful and hidden forces, whether they turn to the minute examination of the various species of Plants and Animals, or to the larger problems by which the world is shaped and governed. Steady and true work in any one branch is sure to increase intellectual power, while in the long run, there is no knowing how much it may help forward the sum of human knowledge. Every district is the better for having in it those who take an interest in natural phenomena, and there are places all over the world which have become famous by the work of some careful Naturalist, who leaves behind him a centre from which other work radiates. It is to encourage such work that our Society exists with other Societies of a kindred nature.

It is with great regret that your Committee have to announce the resignation of our President, Prof. T. McKenny Hughes. He feels himself compelled to retire owing to his many engagements, and the fact that his connection with this part of the country is in a great measure severed. He was elected in November, 1875, and has been the life and soul of the Society for sixteen years. We may truly say that it was to his energy in those early days, when we had just lost our Founder, Charles Kingsley, that our Society owes its present vigorous existence. His courteous manners and eloquent speech made him at once a popular leader, while in the science to which he has devoted his life we had an unrivalled teacher.

The Natural History collection has largely increased during the past year. This is due in a great measure to our Curator, MR. Newstead, whose indefatigable work in this direction will in time render our Local Museum a complete representation of all that is valuable and rare in the district.

We have pleasure in stating that our Society has been presented with a splendid and complete Microscope by J. Tatlock, Esq., who has added this to his many previous kindnesses. The Microscope is for the free use of the Members, and is an invaluable addition to the Society's property.

The Library is in good order, and has been increased both by gifts and purchases. The loan of books from the Free Library is largely made use of by the Students of the various classes held in the Museum buildings, and for this your Committee beg to tender their best thanks to the FREE LIBRARY COMMITTEE.

Mr. Mills, our Honorary Treasurer, will present you with his annual Balance Sheet. It will show that the Accounts of the Society are in a satisfactory condition, and we have pleasure in acknowledging our indebtedness to Mr. Mills for so well carrying out what is often a thankless office.

Mr. E. J. Baillie will also bring before you the Kingsley Memorial Accounts.

The general work of the Society continues to be carried out under the heads of—

EXCURSIONS
EVENING RAMBLES
GENERAL MEETINGS
SECTIONAL MEETINGS

Conversazione
Classes for Instruction
Prizes

The following places were visited during the summer, 1800:—

May	2 Ist	The Coombes, Br	roxton.	
June	6th	Edge Hall Garde	ns and Bro	oxton Wood.
17	24th	Vale of Llangoll	en.	
,,	26th	Conway Valley, i	n connecti	on with Photo-
		graphic Conv	ention.	
,,	27th		ditto	ditto
July	21st		y Lake.	
Sent.	roth			

EVENING RAMBLES

		EVENING RIMBEES.
May	30th	
June	4th	Blacon
9.9	9th	The Dale, Moston Wood.
,,	13th	The Serpentine, Eaton, & Radley Woods,
22	17th	
July	10th	
9.9	15th	Oakfield, Upton.
,,	30th	Hoole Hall Gardens.
A 110	7th	Sealand Road and Meadows

The Excursions and Evening Rambles have been fairly attended, but we are sorry that more of our Members were not able to avail themselves of the carefully planned Excursions of the Photographic Convention. Those who were present had a rare opportunity of seeing much beautiful country. The excursion to Vyrnwy Lake was a great success, and afforded our Members much interesting experience, and the opportunity of viewing, under good guidance, one of the greatest engineering works of the present day.

The Annual Conversazione took place in the Town Hall, on September 25th. On this occasion, the Kingsley Memorial Medal was presented to the REV. C. WOLLEY-DOD, M.A.,

of Edge Hall, Malpas, by MRS. BARBOUR, of Bolesworth Castle. The Rev. C. Wolley-Dod is so well-known to all who take an interest in Plants, their acclimatization and cultivation, that the Society felt it their privilege to confer on him the Kingsley Memorial Medal, and in accepting it he has added another name, of which we are justly proud, to the list of those who have received it in former years.

The Kingsley Memorial Prize of £10 was awarded to Mr. A. J. Nixon, of Manley, for a very fine collection of Land and Fresh-water Shells.

A Grant of £10 was made to Mr. Newstead for his excellent Biological work during the past year.

The especial feature of the Conversazione of 1890 was the lighting of a large part of the Town Hall by electricity. The oil lamps in the Council Chamber were replaced by incandescent lamps, and in consequence the room was delightfully cool, and the objects under the Microscopes were seen to much greater perfection. The Electric lighting was done under the able direction of Messrs. Fawcus & Cowan of the Edison Swan Company, and considering that it was a temporary arrangement, for the evening only, it speaks volumes for the perfection to which the science has already advanced.

The NATIONAL TELEPHONE COMPANY also established connections with London, Manchester, and Liverpool, so that plays and music performed in those places could be distinctly heard in the Town Hall at Chester.

The Microscopes, Photographs, Rare Plants, Cut Flowers, and other Natural History specimens, were fully as numerous and interesting as on former occasions. To meet the tastes of all, there were several short Lectures and Lantern Exhibitions. The Committee owe their best thanks to the then Mayor, JAMES SALMON, ESQ., for granting the use of the Town Hall.

This annual gathering of the Society has done much in past years to keep its interests before the public. We have

always looked to our Members for support on these occasions, and this has been freely given. It is only those who are actively engaged in this work who know the labour involved to ensure its success. We again appeal for help this year, while at the same time we beg to thank most sincerely all those who have so kindly aided us in the past.

The General Meetings of the past year were as follows:—1890.

Oct. 30—" Sidereal Photography," by S. OKELL, ESQ., F.R.A.S., Bowdon. Nov. 27—" Artistic Japan," by H. M. J. UNDERHILL, ESQ., Oxford. 1801.

Jan. 29—"Old and New Fashions in Typography," by TALBOT B. REED, ESQ., London.

Feb. 26—"The Vyrnwy Valley—Past and Present," by J. M. WRIGHT, ESQ., A.M.I.C.E.

Mar. 19—"How the Microscope and Camera combine to produce a Pieture," by Dr. Stolterfoth, M.A.

Apr. 30—"Notes on a Journey through Spain," by G. CLARIDGE DRUCE, ESQ., M.A., F.L.S., Vice-President of Oxford Natural History Society."

These Lectures and Papers deal with matters of general interest, and they have been well attended.

The Sections into which the Society is divided have met as follows:—

BOTANICAL SECTION.

1890.

Nov. 6—"Buttercups and Daisies," by the Chairman, Mr. J. D. SIDDALL.

1891.

Jan. I-" Ferments and Moulds," by MR. F. V. DUTTON.

Feb. 19-" The Autumn Phenomena of Plant Life," by Mr. ROBERT HOLLAND, Frodsham.

Apr. 23—" Spring Flowers," by MR. E. J. BAILLIE, F.L.S.

ZOOLOGICAL SECTION.

1890.

Nov. 13—Explanations and Specimens of Mr. Newstead's work during the past year; also Mr. SIDDALL on "Dredgings from Bull Bay."

Jan. 8.—" Notes on the Season of 1890," by the Chairman, Mr. A. O. WALKER, F.L.S.

Mar. 5.—Conversational Meeting for exhibiting Microscopical and other objects.

GEOLOGICAL SECTION.

1890.

Nov. 2-"The Composition of the Crust of the Earth," by MR. A. W. Lucas, F.R.G.S.

1891.

Jan. 15—"Photographic Records of the Rocks," by Mr. Osmund W. Jeffs, Rock Ferry.

Mar. 12—" Was Palæolithic Man of the Pre-historic Bonecaves of the Vale of Clwyd—Glacial; and Neolithic Man of Northern Britain—Post-glacial," by Mr. W. Shone, F.G.S.

NATURAL PHILOSOPHY SECTION.

1800.

Dec. 4-" Coal Gas: its Manufacture and Application," by Mr. G. E. MACDONALD.

1891.

Jan. 22.—"Aniline Dyes and Pigments," by Mr. J. Bairstow, Queen's Ferry Chemical Works.

Apr. 3-"Lead: its Manufacture and Applications in the Arts," by MR. J. G. COCHRANE, M.A.

APPLIED SCIENCE SECTION.

1890.

Dec. 18-" Keswick Electric Light Station," by MESSRS. FAWCUS, C.E., and E. W. COWAN, A.M.I.C.E.

1801

Feb. 12—"Distribution of Power by Electricity, with special reference to the new City and Southwark Subway," by Mr. C. E. Knowles, A.M.I.C.E., Glossop.

Apr. 16—"Milk Ivory: a new use for Skimmed Milk," by Mr. W. CAMBELL CALLENDER, F.C.S.

We may here mention that some of our Sections have prepared special Reports. This is a move in the right direction. The Secretaries of the Literary and Photographic Sections (the two most recently established) will give you full details of what they have done in the past year. Your Committee hope this good example will be followed by other Sections in future years, as by this means it will be possible to refer, under its proper head, to what has been going on in the Society.

We have no record of Meetings of the Microscopical Section. Like the Photographic Section, it appears at many of our Meetings. The Microscope and the Camera together, help to illustrate the lectures far better than the diagram of former days. In many cases now the actual microscopic object can be thrown on the screen by means of its photograph. More accurate diagrams are also now possible, because a really good drawing can be reproduced by photography, and then made into a lantern slide. This has been done in the last few years, but now the time has come when a Society like ours should have a first-rate Lantern and all its appliances for giving graphic illustrations of the subjects brought before an audience. This we hope to possess before another winter.

Very closely connected with our Society is the Paxton Society, which meets in this building every other Saturday. In this Society are discussed the practical bearings of Natural Science in its relation to the cultivation of Trees, Fruits, and Flowers, and many of the working Gardeners and Agriculturists of the district avail themselves of its Meetings. This is a healthy sign, and promises good results. Already the Society numbers 70 Members.

Your Committee have met frequently during the past year, and have endeavoured, as far as possible, to make the arrangements for the Society tend to the general convenience of its Members. This is often difficult, as the building is in joint occupation with other Societies, and the demand for the use of rooms is yearly becoming greater. The Committee trust, however, that our Members will continue to support their executive as they have hitherto done, and that the coming year may be one of continued prosperity and usefulness.

HENRY STOLTERFOTH, M.A., M.D., Scientific Secretary.

CURATOR'S REPORT FOR 1890-91.

It gives your Curator much pleasure to present his Third Annual Report to the Members of this Society, more especially since the additions for the past year show a decided increase over those of previous years.

The following is a total abstract of the number of Species and Specimens:—

		Species Presented.	Species Purchased.	Total of Species.	Total of Specimens.
Cælenterata	:	2		2	5
Crustacea (Shrimps, &c.)		4		6	6
Coleoptera (Beetles)		77		77	148
Neuroptera (Dragon Flies)		4		4	4
Hymenoptera (Bees, &c.)		32		32	94
Lepidoptera (Moths)		122		122	260
*Coccidæ (Scale Insects)		19		19	100
Aleurodidæ (Powder-wing Flies)		I		1	2
Diptera (Two-wing Flies)		I		1	I
Life-histories of Injurious Insects		9		9	63
†Mollusca (Shells)		84		84	1423
Pisces (Fish)		3		3	7
Reptilia		2		2	3
Aves (Birds)		38	8	46	99
Eggs and Nests		11		11	14
Mammalia (Animals)		7		7	10
Geology					290
TOTAL ,.		416	8	426	2529

^{*} The total does not include specimens of the genus Diaspis, Mytilaspis, and Chionaspis.

† Including the Kingsley Memorial Collection.

Out of this total, about 1,329 have been sent in entirely unprepared, so that it can be seen at a glance the nature and extent of the work undertaken by your Curator during the past year. It may also be interesting to note that the total number of additions since April 1888, are 6,127.

At this point your Curator begs most respectfully to call attention to the fact that, for months past, he has been unable to place many of the recent donations on view, there being

now no available exhibitive space; it will, therefore, be necessary, in a short time, to provide some temporary accommodation for the reception and storage of specimens. This, however, does not apply to the *Entomological* department, as fortunately there are still many empty drawers in the cabinets.

All the Birds have been remounted on the new blocks and labelled. Three life-histories of Birds have been prepared, viz., the Lesser Tern, Stone Chat, and Ring Ouzel; but owing to the number of specimens sent in, little else has been done in this direction.

In the Entomological department, we are under considerable obligations to the following gentlemen for their valuable help in the identification of species:—MR. EDWARD SAUNDERS, F.E.S., Woking; REV. CANON W. W. FOWLER, M.A., F.L.S, Lincoln; MR. JOHN B. BRIDGEMAN, F.E.S., Norwich; MR. EDWARD A. FITCH, F.E.S., Maldon; MR. J. W. DOUGLAS, F.E.S., Lewisham; PROF. C. V. RILEY, Agricultural Department, Washington, U.S.A.

A few additional life-histories of Injurious and other Insects have been prepared, and some valuable additions have been made to the following orders:—Coleoptera, Lepidoptera, and the Coccidæ. To the latter your Curator has added five species new to science, three of which he has described; the other two have been described by Mr. J. W. DOUGLAS. Illustrated descriptions of these will shortly be placed in the Society's Library.

Owing to the great deficiency in our Library of reference works, your Curator acknowledges, with thanks, the assistance rendered by the following gentlemen in granting the loan of their valuable books:—MR. A. O. WALKER, MR. J. W. DOUGLAS, MR. C. E. STOTT, Bolton-le-Moors, MR. T. SHEPHEARD, and REV. E. A. PITCAIRN-CAMPBELL.

In concluding this Report, your Curator cannot help expressing his gratitude for the kind help and encouragement he has always received at the hands of the Committee and from generous donors.

LIST OF DONORS.

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^{*}This does not include the genus Diaspis, Mytilaspis, and Chionaspis.

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GEOLOGY.							
Capt. F. R. Blackbu	rne, R.N	• • •					64
Mr. W. F. Lowe							174
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Dr. W. H. Dobie—One Glass Case, Stand, and Fittings, for Life-history of Lesser Terns.

RECORDS.

Mr.	J. Rowland	Birds	Mr. W. E. Sharpe	Coleoptera
,,	A. O. Walker	Various	Curator	Various

R. NEWSTEAD, F.E.S.,

30th April, 1891.

CURATOR.

The Hon. Treasurer in account with the Chester Society of Natural Science and Literature, for the Year ending April 30th, 1891.

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3RD JUNE, 1891—Examined and found correct, shewing a balance due to the Treasurer of Four Pounds One Shilling and Sevenpone Halfpenny. J. ROWE DUTION,
BERESFORD ADAMS,

JOHN MILLS. HON, TREASURER.

"KINGSLEY MEMORIAL" FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1891.

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Cr. By Payments at the Conversazione of the Chester	Mr. A. J. Nixon 10 0 0	" Advertizing Prizes in Chester Papers I II o	and "Bye-Laws" Mr. J. D. Siddall, Engraving Medal Balance	
Dr. & s. d.	::	Bankers' Interest 0 10 0		01 9 09)7

To]

15TH APRIL, 1891—Examined and found correct,
W. VINCENT,

HON. AUDITOR.

EDMUND J. BAILLIE, HON. TREASURER.

PHOTOGRAPHIC SECTION.

REPORT.

In presenting their third Annual Report, your Committee ask for increased interest in the work of the Section, especially in the contribution of papers and demonstrations by those whose experience would be of great value to many of their fellow-members who may be just beginning the art of photography, and struggling with the many difficulties which beset the path of the novice.

Your Committee venture to hope that the Meetings and Excursions of the Photographic Convention, which was held in Chester in the summer of 1890, proved attractive and profitable to the Members who were able to attend, and that valuable knowledge and useful hints were acquired from friendly intercourse with some of the distinguished photographers who assembled at those gatherings.

Two General Meetings of the Society have been devoted to subjects essentially photographic; at one a Lecture on "Sidereal Photography" was given by Mr. S. Okell, F.R.A.S., and at the other a Lecture on "How the Microscope and the Camera combine to produce a Picture," by Dr. Stolterfoth; whilst at most of the ordinary meetings of the Society the aid of photography has been enlisted to illustrate the remarks of the Lecturers, by means of Lantern Slides, &c.

The Members of the Section and others contributed to the success of the Annual Conversazione by an Exhibition of Photographic Prints and Lantern Transparencies, many of which were much admired for their artistic and technical qualities.

Your Committee note with pleasure that a lady member of the Section has gained a medal at the International Photographic Exhibition now being held in Liverpool, and beg to commend that Exhibition to the attention of the Members, feeling assured that nothing tends so much to educate taste and stimulate to increased exertion as seeing the excellence to which photography may attain under the artistic perception and manipulative skill of past-masters of the art-science.

The following Sectional Meetings have been held. To all those who took part therein your Committee tender their best thanks.

1800.

Nov. 10.-Exhibition of Lantern Slides by Members of the Section.

Dec. 8.—" Enlarging and Contact Printing on Bromide Paper; the Kodak and Transparent Films," by Mr. H. M. Smith, The Eastman Photographic Materials Co., London.

1891.

Jan. 21.—" The White Mountains of New Hampshire," by The Boston (U.S.A.) CAMERA CLUB.

Feb 5.—"Notes on Micro-Photography," by Dr. Stolterfoth, M.A. April 9.—"The Land of the Heroes of 'Westward Ho,'" by Mr. G. F. WYNNE.

J. H. SPENCER,
HON. SECRETARY.



PHOTOGRAPHIC SECTION.

BALANCE SHEET TO 31st MARCH, 1891.

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Balance in hands of the Treasurer, One Pound Fifteen Shillings and Eightpence.

Aug. 17th, 1891—Examined and found correct,
BERESFORD ADAMS, How. Auntors.

SECTION OF LITERATURE.

REPORT.

THE following Meetings have been held during the winter:-

1890.

Nov. 3-"The Legend of the Holy Grail," by REV. A. H. FISH, B.A.

Dec. 1-"Walt Whitman," by Mr. E. J. BAILLIE, F.L.S.

1891.

Feb. 4-"The Story of the Battle of Agincourt," by Mr. T. M. LOCKWOOD, F.R.I.B.A.

Mar. 2—"The Passion Play at Oberammagau, in 1890," by Mr. C. LANCASTER.

Apr. 6-Business Meeting.

The general interest taken in the Section, and the very good attendance at the Meetings have shewn that the hopes of its promoters were fully justified. It is also gratifying to notice that the new Section, so far from being regarded as an intruder, has found some of its most cordial supporters among the members and officers of the Scientific Sections. It is hoped next Session to have rather more frequent meetings, and to include in the Course not merely Lectures and Papers, but the reading and informal discussion of some of the masterpieces of literature. In this way the Section may perhaps hope to supplement to some extent the work of the University Extension Lectures, to whose stimulating influence it has been, particularly during the present Session, considerably indebted.

At the Business Meeting on April 6th, 1891, the President and Officers were re-elected.

ARTHUR H. FISH,
HON. SECRETARY.

KINGSLEY MEMORIAL MEDAL.

ESTABLISHED 1877,

"For having contributed materially to the promotion and advancement of some branch or department of Natural Science."-Vide Trust Deed.

1877-MRS. CHAS. KINGSLEY (In Memoriam.)

1878-John Price, M.A.

1879-SIR PHILIP DE MALPAS GREY-EGERTON, BART, F.R.S.

1880-PROF. T. MCKENNY HUGHES, M.A., F.S.A., F.G.S., &c.

1881-D. MACKINTOSH, F.G.S.

1882-ISAAC BYERLEY, M.R.C.S., F.L.S.

1883-George W. Shrubsole, F.G.S.

1884-ALFRED OSTEN WALKER, F.L.S.

1885-JOHN DAVIES SIDDALL.

1886-Henry Stolterfoth, M.A., M.D.

1887—WILLIAM SHONE, F.G.S.

1888—THOMAS SHEPHEARD, F.R.M.S.

1889—Thos. Ruddy.

1890-Rev. Chas. Wolley-Dod, M.A.

HELEN SMITH (E)

KINGSLEY MEMORIAL PRIZES,

ESTABLISHED 1877,

"For the reward, encouragement, and the advancement of the pursuit and study of Natural Science."—Vide Trust Deed.

1878 EDWIN W. OKELL 5	Herbarium of Flowering Plants.
1879—George Shrubsole 5	Carboniferous Fossils.
1881—E. HOPKINS 5	Cryptogamous Plants.
1882-GEORGE SHRUBSOLE 10	Corals of the Mountain Limestone.
1886-Robert Newstead 10	
1887—John Lyon Denson 5	Notes of Observations illustrating the Natural Science of the Society's District.
1888-LILIAN E. TOMLIN 5	Coleoptera.
1889 EDITH C. TOMLIN 5 W. E. SHARP 5	Diptera and Hymenoptera (Tere- brantia), &c.
W. E. SHARP 5	Coleoptera.
1890—Alfred J. Nixon 10	Land and Fresh-Water Shells.

KINGSLEY MEMORIAL PRIZES.

Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition, and which have already been advertised in local and other newspapers:—

1891.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above Prize, the Committee have decided that, in order to encourage scientific research, they will make Grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

*** All Collections must be made in Cheshire or North Wales, or the Seas adjoining thereto, by the persons competing.

The Collections, Essays, or Notes of Observations, may be sent in to either of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.-The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

Intending Competitors can obtain all particulars, and the conditions under which the Prizes are offered, from either of the General Secretaries; and all Collections, &c., must be sent in to either of them on or before the 1st September in each year.

The Prizes will be awarded at the Annual Conversazione.

SOCIETIES ASSOCIATED,

WITH WHICH THE SOCIETY EXCHANGES PUBLICATIONS.

Academia Nacional de Ciencias De La Republica, Argentina, Cordoba.

Barrow Naturalists' Field Club.

Brighton and Sussex Natural History Society.

Bristol Naturalists' Society.

British Museum (Natural History), Cromwell Road, London, S.W.

Burnley Literary and Scientific Club.

Cardiff Naturalists' Society.

Cassel Society of Natural Science.

Dudley and Midland Geological and Scientific Society and Field Club.

Epping Forest and County of Sussex Naturalists' Field Club.

Glasgow Natural History Society.

Hertfordshire Natural History Society and Field Club.

Huddersfield Naturalists' Society.

La Société d'Histoire Naturelle de St. Wladimir á Kiew, Russie.

Leeds Naturalists' Club.

Liverpool Geological Society.

Liverpool Geological Association.

Liverpool Literary and Philosophical Society.

Liverpool Microscopical Society. Liverpool Naturalists' Field Club

Liverpool Science Students' Association.

Manchester Field Naturalists' Society.

Manchester Geological Society.

Manchester Microscopical Society.

Manchester Scientific Students' Association.

Menai Society of Natural Science.

Northampton Natural History and Field Club.

North Staffordshire Naturalists' Field Club and Archaeological Society.

Nottingham Naturalists' Society.

Postal Microscopical Society.

Quekett Microscopical Society. Rochdale Field Naturalists' Society.

Smithsonian Institution, Washington, D.C.

United States Geological Survey.

Vatican Observatory, Rome (F. Francis Denza, Director.)

Vienna Natural History Museum.

Wigan Literary and Scientific Society.

HONORARY MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

Archer, Frank, Esq., B.A.	11 Cook Stuart Timmer
Carruthers, W., Esq., F.R S., F.G.S.	The Duitish Massey Could To
Dody 111 0., 1.0.,	sington, London, S. W.
*Dawkins, Prof. W. Boyd, M.A., F.R.S.	singion, London, S. W.
F.G.S., F.S.A.	. Woodhurst, Wilmslow rd., Fallow-
	field, Manchester
De Tabley, The Right Hon. Lord	69 Flm Dank word Cholese 7 - 1-
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*Hicks, H., Esq., M.D., F.R.S., F.G.S.,	
*Higgins, Rev. H. H., M.A.	99 Fullman Canana Lingungal
Hooker, Sir J. D., K.C.S.I., F.R.S.	Royal Gardene Kom London W
"Hughes, Prof. T. McKenny, M.A., F.R.S.	
F.S.A., F.G.S., &c.	Trinity College Cambridge
F.S.A., F.G.S., &c. Hunt, T. Sterry, Esq., M.A., LL.D., F.R.S.	Montreal Canada
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F.L.S., F.G.S.	Hodeslea Easthounne
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Renard, The Abbé	Curator of the Royal Museum of
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*Rudler, F. W., Esq., F.G.S.	Museum of Practical Geology, Jer-
Tundall Doof I DOI IID DOG	myn street, London, S. W.
Tyndall, Prof. J., D.C.L., LL.D., F.R.S.	Hind Head House, Haslemere
Villanova-y-Piera	Professor of Geology in the Uni-
*Vize Rev J E M A	versity of Madrid
*Vize, Rev. J. E., M.A	Rector of Forden, Welshpool

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, ,	Festiniog.

NOTICE.

THE ANNUAL SUBSCRIPTIONS are due on the 1st of May in each year. Members who have not paid for the present year are respectfully requested to forward the amount (Five Shillings) to the Hon. Treasurer, Mr. JOHN MILLS. Ohemist, Eastgote Row.

To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary, according to Rule 8.

LIST OF MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

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*Acton, Mr. T. BennionGrove road, Wrexham	
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7) 3.5	
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Dod, Miss Wolley, "

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Duckworth, Mr. Henry Christ Church Vicarage	
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Enock, Mrs, ", ", Evans-Lloyd, Col., J.PStanley House	
*Franc Mr F	
Fyans Miss Fyersley House Eversley park	
Trans, Day T. T. M.A. Harris Day Land Charles	
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Evans, Miss J. E The Limes, 5 Lumley road	
Evans, Miss Agard 14 Chichester street	
Ewen, Miss Bridge street row	
Ewing, Mr. C. A 3 Brookside villas, Flookersbrook	
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Gardner, Mrs. W. A	Redland House, Hough green
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Gardner Miss Mabel	,, ,, ,,
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Golder, Mr. S	41 Liverpool road
Goodhart, Mrs. E. S	96 Watergate flags
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Griffith, Mrs.	22 . 29
Griffith, Mrs. Griffith, Miss. Griffith, Mr. N. de B.	0 777 3 , 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Griffith, Mr. N. de B.	87 Harley street, London, W.
Griffiths, Mr. Jno.	Upton park
Griffiths, Mrs.	- TT " 1
Griffiths, Mr. T. W.	5 Hough green
Griffiths, Miss	42 watergate street
Griffiths, Mr. John	,, ,,
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*Griffiths, Rev. T. Turner, M.A.,	Derby villa, Clifton Wood, Bristol
*Griffiths, Rev. T. Turner, M.A *Grocott, Mr. E. A	Derby villa, Clifton Wood, Bristol Queen's park
*Griffiths, Rev. T. Turner, M.A *Grocott, Mr. E. A	Derby villa, Clifton Wood, Bristol Queen's park
*Grocott, Mr. E. A	Queen's park
*Hall, Mr. J. H. A.	Old Bank House
*Hall, Mr. J. H. A.	Old Bank House
*Hall, Mr. J. H. A	Old Bank House
*Hall, Mr. J. H. A	Old Bank House
*Hall, Mr. J. H. A	Old Bank House
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Miss Josephine Hall, Miss Josephine Hall, Mrs. Hall Mrs.	Old Bank House
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Miss Josephine Hall, Miss Josephine Hall, Mrs. Hall Mrs.	Old Bank House
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mr M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S.	Old Bank House """ Government House "" 9 Abbey street 16 White friars
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*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mr M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S. Hankey, Mr. Lee Hankey, Miss C. M. Hannigan, Mr. Ino.	Old Bank House """ Government House "" 9 Abbey street 16 White friars Rock Mount, Liverpool road "Sunny Bank, Queen's park
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mr. M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S. Hankey, Mr. Lee Hankey, Miss C. M. Hannigan, Mr. Jno. Hardy, Mr. J. E.	Old Bank House """ Government House "" 9 Abbey street 16 White friars Rock Mount, Liverpool road "Sunny Bank, Queen's park The Blue Coat School, The Northgate
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mrs. Hall, Mrs. Hall, Mr. M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S Hankey, Mr. Lee Hankey, Mrs. C. M. Hannigan, Mr. Jno. Hardy, Mr. J. E. Hardy, Mrs.	Old Bank House """ Government House "" 9 Abbey street 16 White friars Rock Mount, Liverpool road "" Sunny Bank, Queen's park The Blue Coat School, The Northgate
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mr M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S. Hankey, Mr. Lee Hankey, Mr. Lee Hankey, Mr. J. Handy, Mr. J. Hardy, Mr. J. E. Hardy, Mrs. Harrison Miss	Old Bank House """ Government House "" 9 Abbey street 16 White friars Rock Mount, Liverpool road "" Sunny Bank, Queen's park The Blue Coat School, The Northgate "20 Lorne street" ""
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mr M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S. Hankey, Mrs. Lee Hankey, Miss C. M. Hannigan, Mr. Jno. Hardy, Mr. J. E. Hardy, Mrs. Harrison Miss Harrison, Mrs. Harrison, Mrs.	Old Bank House """ Government House "" 9 Abbey street 16 White friars Rock Mount, Liverpool road "Sunny Bank, Queen's park The Blue Coat School, The Northgate "20 Lorne street Ashton House, New Crane street
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Cecile Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mr. M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S. Hankey, Mr. Lee Hankey, Miss C. M. Hannigan, Mr. Jno. Hardy, Mr. J. E. Hardy, Mrs. Harrison Miss Harrison, Mrs. Jno.	Old Bank House """ Government House "" 9 Abbey street 16 White friars Rock Mount, Liverpool road "Sunny Bank, Queen's park The Blue Coat School, The Northgate "" 20 Lorne street Ashton House, New Crane street Highfield, Curzon park
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Cecile Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mr. M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S. Hankey, Mr. Lee Hankey, Miss C. M. Hannigan, Mr. Jno. Hardy, Mr. J. E. Hardy, Mrs. Harrison Miss Harrison, Mrs. Jno.	Old Bank House """ Government House "" 9 Abbey street 16 White friars Rock Mount, Liverpool road "Sunny Bank, Queen's park The Blue Coat School, The Northgate "" 20 Lorne street Ashton House, New Crane street Highfield, Curzon park
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mrs. Hall, Mr. M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S. Hankey, Mr. Lee Hankey, Miss C. M. Hannigan, Mr. Jno. Hardy, Mr. J. E. Hardy, Mrs. Harrison Miss Harrison, Mrs. Harrison, Mrs. Harrison, Mrs. Harrison, Mrs. Harrison, Mrs. Harrison, Mrs. Harswell, Mr. G. H.	Old Bank House """ Government House "" 9 Abbey street 16 White friars Rock Mount, Liverpool road "Sunny Bank, Queen's park The Blue Coat School, The Northgate "20 Lorne street Ashton House, New Crane street Highfield, Curzon park Ashville, Helsby
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Major-Gen. Julian H. Hall, Mrs. Hall, Mrs. Hall, Mrs. Hall, Mr. M. J. Hamel, Miss Hamilton, Mr. A., M.R.C.S Hankey, Mr. Lee Hankey, Mrs. C. M. Hannigan, Mr. Jno. Hardy, Mr. J. E. Hardy, Mrs. Harrison Miss Harrison, Mrs. Harrison, Mrs. Harrison, Mrs. Harswell, Mr. G. H. Henderson, Mr. J. E.	Old Bank House """ Government House "" 9 Abbey street 16 White friars Rock Mount, Liverpool road "Sunny Bank, Queen's park The Blue Coat School, The Northgate 20 Lorne street Ashton House, New Crane street Highfield, Curzon park Ashville, Helsby 19 Pathway, Queen's park
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Henshaw, Mr. L	err vv iii. v i
11011011111 1111 11 1 1 1 1 1 1 1 1 1 1	.The Hollies, Liverpool road
Henshaw, Mr. T. A.	. ,,
Henshaw, Miss Edith E. Henshaw, Miss Florence M. Henson, Miss E.	+ 35 22
Henshaw, Miss Florence M	. 19 99
Henson, Miss E	. The Studio, Bridge street row
Herne, Colonel	Delamere House, Liverpool road
Herritt Mr David I	. Abbey House, Northgate street
Hickman, Mr. F. F.	8 Northgate street
Hickman, Miss	17 The Groves
Timing Miss	The Manor Overleigh
Higgins, Miss Eva	. The Manor, Overleigh
Higgins, Miss Millie	C. Martinla in the Calde
Higgins, Mr. W. H.	, St. Martin's in-the-helds
Hignett, Mrs.	14 Hough green
Hignett, Mr. A. H	. 11 11
Hignett, Mr. A. H	. 18 Hough green
Hillyard Rev. Canon, M.A.	Okeford, Bampton, N. Devon
Hincks, Mr. J. W	. 61 Northgate street
Ilinola Mr LI T	
Hobday Mr I	. Alexandra villa, Liverpool road
Hobday, Mr. E.	
Hobday, Mr. Jas.	22 The Groves
*Hodges, Mr. W. Hodges, Mr. T. R. Hodges Miss A. G.	. 31 Hough Green
Hodges, Mr. T. R.	17 27
Hodges, Miss A. G. Hodkinson, Mr. E.	
Hodkinson, Mr. E	. 35 Pepper street
*Holland, Mr. R., M.R.A.C.	, Mill Dank House, Prousnam
Holme, Rev. A. P., M.A.	, The Rectory, Tattennau
Holmes Mr T G	. Belmont, Curzon park
Hoole, Rev. W. Spooner, M.A.	.Thornton Rectory, near Chester
Hopkins, Mrs.	. 32 Oueen street
Horabin, Mr. T.	16 Newgate street
	7.1 Brook street
Horton, Mr. H. R.	
Hostage, Mr. Geo. B	28 Eaton road
Hostage, Mr. Geo. B	28 Eaton road
Hostage, Mrs. Geo. B	28 Eaton road ,, ,,
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. I. F. M.A.	28 Eaton road 27 Eaton road Egerton House, Upper Northgate street
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. I. F. M.A.	28 Eaton road 27 Eaton road Egerton House, Upper Northgate street
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. I. F. M.A.	28 Eaton road 27 Eaton road Egerton House, Upper Northgate street
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Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J. M.A.	22 Eaton road22 Eaton roadEgerton House, Upper Northgate street,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hudson, Mrs. R. S.	22 Eaton road22 Eaton roadEgerton House, Upper Northgate street
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hudson, Mrs. R. S.	22 Eaton road22 Eaton roadEgerton House, Upper Northgate street
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Hostage, Mr. Geo. B. Hostage, Mrs. Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C.	22 Eaton road 22 Eaton road 22 Eaton road Egerton House, Upper Northgate street """" The Vicarage, Crewe Bache Hall, Chester 4 Cintra terrace, Cambridge Town Hall, Manchester Uffington House, Dee hills
Hostage, Mr. Geo. B. Hostage, Mrs. Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Miss M. Howson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs.	28 Eaton road
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs.	22 Eaton road22 Eaton road22 Eaton roadEgerton House, Upper Northgate street
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs. Hughes, Mrs. Hughes, Mrs. Humberston, Miss Humberston, Miss Humphreys, Mr. E. Noel	28 Eaton road
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs.	28 Eaton road
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Mrs. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mr. John Humberston, Miss. Humphreys, Mr. E. Noel Humphreys, Miss	28 Eaton road
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs. Hughes, Mrs. Hostage, Mrs. Hughes, Mr. John Humberston, Miss Humphreys, Mr. E. Noel Humphreys, Miss	28 Eaton road
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs. Hughes, Mrs. Hostage, Mrs. Hughes, Mr. John Humberston, Miss Humphreys, Mr. E. Noel Humphreys, Miss	28 Eaton road
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Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, Mr. Honour Judge, Q.C. Hughes, Mr. Hughes, Mr. Humberston, Miss Humphreys, Mr. E. Noel Humphreys, Mr. E. Noel Humphreys, Mr. Roger Jackson, Mr. Roger Jackson, Miss Jacob, Rev. Joseph, M.A. Lavne, Mr. Ernest	28 Eaton road
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, Mr. Honour Judge, Q.C. Hughes, Mr. Hughes, Mr. Humberston, Miss Humphreys, Mr. E. Noel Humphreys, Mr. E. Noel Humphreys, Mr. Roger Jackson, Mr. Roger Jackson, Miss Jacob, Rev. Joseph, M.A. Lavne, Mr. Ernest	28 Eaton road
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, Mr. Thos. Cann, B.A. *Hughes, Mr. John Humberston, Miss Hughes, Mr. E. Noel Humphreys, Mr. E. Noel Humphreys, Mr. E. Noel Humphreys, Mrs. Jackson, Miss Jackson, Miss Jackson, Miss Jackson, Miss Jackson, Miss Jackson, Mr. Roger Jackson, Miss Jac	28 Eaton road
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, Mr. Thos. Cann, B.A. *Hughes, Mr. John Humberston, Miss Hughes, Mr. E. Noel Humphreys, Mr. E. Noel Humphreys, Mr. E. Noel Humphreys, Mrs. Jackson, Miss Jackson, Miss Jackson, Miss Jackson, Miss Jackson, Miss Jackson, Mr. Roger Jackson, Miss Jac	28 Eaton road
Hostage, Mr. Geo. B. Hostage, Mrs. Hostage, Miss Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M. Howson, Mrs. M. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mr. John Humberston, Miss Humphreys, Mr. E. Noel Humphreys, Miss Jackson, Miss Jackson, Miss Jacob, Rev. Joseph, M.A. Jayne, Mr. Grnes, C.E.	28 Eaton road

Jephcott, Mr. Charles 13 Lorne street (North)
Johnson, Major 9 Upper Northgate street
Johnson, Mrs II Bertram road, Sefton park, Liverpool
Johnson, MrSt Paul's School, Boughton
*Johnson, Mr. M., L.D.S.I9, York villas, Lorne street
Jones, Miss Maggie King's buildings
Jones, Miss S. H
Jones, Miss The Northgate
Jones, Mr. F 59 Bridge street row
Jones, Militariani, and Dinage street low
Keeble, Rev. S. E Hawthorne villas, Flookersbrook
Kelham, Mr. Augustus 3 Eversley park, Liverpool road
Kelly, Miss E. J
Kelsall, Miss MAbbot's court, Liverpool road
Kemp, Mr. Geo59 Bridge street
Komp Mrs
Kemp, Mrs, ,, ,, Kenyon, Mr. G. A., M.B Flookersbrook
Kenyon, Mr. G. A., M.D Flooreisolook
King, Mr. H. W., M.D 18 Newgate street
King, Mrs
Kingsley, Miss tachorook Mallory, Leamington
Kingsley, Mr. G. A
Kinsey, Mr. 1. E. Morris Westminster buildings
Kirkpatrick, Mrs Ash Grove
Knowles, Mr. E. R Grosvenor street
Kynnersley, Mr. E. M. Sneyd 24 Castle street
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Lacy, Mrs Moor Holme, Neston
Lamont, Mr. A 3 City Walls (West)
Lamont, Mr. A., Junr. , , , , , , , , , , , , , , , , , , ,
Lamont, Miss
Latham, Mr. J. S Green Bank, Liverpool road
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Leighton, Mr. A. G
Lewis, Rev. J. S., M.A Guilsfield Vicarage, Welshpool
Lightfoot, Mrs. W. M
Linnell, Mr. Geo. F The Old Bank, Chester
Lipsham, Mr. F 17 Pepper street
Littler, Miss
Lloyd, His Honour Sir Horatio Stanley place
Lloyd, Lady, ,,
Lloyd, Mr. E. Honoratus32 Prince's square, Bayswater, London
Lloyd, Mrs. E Abbot's mount, Liverpool road
Lloyd, Mrs. E. Honoratus 32 Prince's square, Bayswater, London Lloyd, Mrs. E
*Lockwood, Mr. T. M., F.R.I.B.A80 Foregate street Lomax, Mr. F. T12 Bold terrace
Lomax, Mr. F. T 12 Bold terrace
Lowe, Mr. G. B 25 Hough green
Lowe, Miss C. H , , ,
*Lowe, Mrs. W. F., A.R.S.M., } 21, Granville road, Cambrian view
F.I.C., F.C.S.
Lowe, Mr. Jas. F., B.A Dee Banks
Lowe, Mr. Jas. F., B.A Dee Banks
*Lucas, Mr. A. W., F.G.S
Lund, Mrs Thorpe villa, Liverpool road
Luxmoore, Mr. E. B., J.P., F.G.S., Bryn-Asaph, St. Asaph
4) feederald 3 fe C
*Macdonald, Mr. G 3 Abbey square
Manley, Mr. H Aston, Nantwich

*Manning, Mr. J. BThe Governor's House, H.M. Prison, Pentonville, London
Manning, Miss Edith 18 Upper Northgate street
Mann, Mr. A., M.B. Pepper street Mannington, Mr. Herbert T. Flint Marchant, Mr. W. H. Whitefriars House
Marsden, Miss 6 Grosvenor park road Mason, Mr. F. B. 3 Lorne street (North)
Massie, Admiral 3 Stanley place Massy Miss Mansfield lodge, Hough green
Mawdsley, Miss M. M 8 Eaton road
Mawdsley, Mrs J. G , Mawdsley, Mr. W. H ,
McEwen, Mrs
Meakin, MrsBoughton lodge, Chester *Mills, Mr. John4 Eastgate row
Mills, Mrs
Miln, Mrs
Milne, Mrs, ", ", Minshull, Mr. EThe Northgate
Minshull, Miss, ", ", Montgomery, Rev. J. KAbbot's villas, Liverpool road
Moreton, Mr. J. E., F.R.C.S Tarvin
Morris, The Rev. Canon, D.D Eaton, Chester Morris, Mr. Chas 3 Sumpter pathway, Hoole
Morris, Miss M. Wilton House, Pepper street Musgrave, Mrs
• • • • • • • • • • • • • • • • • • • •
Nelson, Mrs
Nelson, Miss
Nicholls, Miss Deaconess House, Nicholas street Nicholson, Mr. J. M. Little Sutton, Chester
recorson, mr. j. m. ,
*Okell, Mr. W. H 1 Northgate street *Okell, Mr. E. W
Okell, Mr. P. H. The Cross *Okell, Miss M. H. 6 Curzon park
Okell, Miss J, ,, ,,
Okell, Miss A
Oldfield, MissBryn Clwyd, St. Asaph Oldmeadow, Mr. Geo. E22 Lorne street
Orton, Mr. R. O., J.PTattenhall, Chester
Parkes, Mr. A Bridge street row Parkes, Mrs , , ,
Parry, Mrs. C
*Parry, Mr. T. S., M.B10, Upper Northgate street

Parry, Mr. Morris21 Victoria road
Partington, Mr. John T Denbigh villas, Cheyney road
Payne, Miss Abbey green
Th A
Phillipson, Mr. J
Phillipson Mr H G
Phillipson, Mr. H. G. , , , , , , , , , , , , Podmore, Miss , , , 3 Eastern pathway, Queen's park
Porter, MrsCrowthorne, Childer Thornton, Chester
Potts, Miss A. M Heron bridge
Detta Miss C. I
Potts, Miss C. L
Poursil Mr. E. Fostgate row
Powell, Mr. E Eastgate row
Powell, Mrs
Powell, Mr. T. J
Powles, Mr. A. E Abbet's guare
Preston, Mr. F. M Abbot's grange, Liverpool road
Price, Mr. Paul Bryntirion, Chichester street
*Price, Mr. Walmsley26 Watergate row
Price, Mrs. ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
Price, Miss53 Rutiand terrace, Parkgate road
Prichard, Mr. Geo 9 The Groves
Prichard, Miss, ,,
Prichard, Miss
Pye, Mrs
*Pye, Mr. T. E Gasworks, Shrewsbury
Rayner, Miss Ash grove, Wrexham road
Ray, Miss 3 Eastern pathway, Queen's park
Reade, Mr. Albert William 11 Lorne street
Reade, Mr. Walter, ,, ,, Richardson, Mr. ABridge street row
Ribton, MrsGolden grove, Hoole road
Roberts, Mr. J The North & South Wales Bank
Roberts, Miss
Roberts, Miss M
Roberts, Mr. J., M.D 8 Abbey square
Roberts, Mr. HughCrypt Chambers
Roberts, Miss Johnson 7 Lumley road, Liverpool road
Roberts, Mr. P. Lyddon Bold terrace
Roberts, MissBoughton lodge, Chester
Roberts, MissOverleigh, Hough green
Roberts, Miss C. F,
Roberts, Miss C. F. , , , , , , Rogers, Mr. JamesThe Cross
Rogers, Mr. Inc Watergate House
Rogers, Mr. W.
Rogerson, Mr. G. H 4 Nicholas street
Royle, Mrs. T. V
Royle, Mr. T. R. P
Royle, Mrs
Royle, Mrs
Ryan, Mr. Thos
Sandbach, Mr. S. H., J.P Cherry Hill, Malpas
*Sandford, MrsQueen's School
Sant, Mr. T
Schroder, Mr. W. GQueen's Park Farm
Scotland, Colonel Eccleston Hill, Chester
Scott, Mr. John 19 Chichester street

Scott, Rev. S. Cooper, M.A	St. John's Rectory White Friars House
Selwood, Mr. TI	Eaton Gardens, Chester
Sharpe, Mr. F. W	Abbey square
Sharpe Mr Alan	
Sharpe, Mr. Alan	Hallwood Tedsham
*Shepheard, Mr. T., F.R.M.S F	Cingsley Lodge Liverpool road
Shophoard Mice	
Shepheard Miss Emma	;; ;; ;; ;;
Shepheard, Miss Emma	" "
Shepheard, Miss F	Inton park
Shone Mrc	
Shrubsole, Mr. Alfred	Town Hall square
Shufflebotham, Mr. John3	Bold square
*Siddall, Mr. J. D	o Eaton road
Siddall, Mrs.	
Sitwell, Mrs	Eaton road
Small, Mr. A. HT	he Leadworks
Small, Mr. Jas. P3	Deva terrace
Smith, Mr. T.	Blacon Point, Chester
Smith, Mrs. S	6 Nicholas street
Smith, Miss H	
Smith, Mr. John	Market square
Smith, Mr. T. J	foor House, Flookersbrook
Smith, Mrs.	**
Smith, Mr. D. Ramsey	o Prestage street, Poplar, London, E.
Smyth, Miss Lyle	Barrowmore Hall, near Chester
Spencer, Mr. J. H3	6 Bridge street
Spencer, Rev. Walter	Ely Grange, Frant, Tunbridge Wells
Spooner, Miss	
Spinks, Mr. Robt. C	
Stevenson, Mr. A	Frosvenor park road
Stewart, Mrs3	9 White friars
*Stolterfoth, Mr. H., M.A., M.D.,	I.P., I Grey friars
Stolterfoth, Mrs. Stolterfoth, Miss Storr, Mr. F	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Stolterfoth, Miss	
Storr, Miss	_ 22 23
Storrar, Miss S	Newgate street
*Strahan, Mr. Aubrey, M.A., F.G.S	H.M. Geological Survey, Museum, Jermyn street, London, S.W.
75. 7. 6.7	Jermyn street, London, S.W.
*Sturgeon, Mr. J., C.E.	Shrublands, Hoole, Chester
Summers, Mr. E	South view, Tarvin road
Sumner, Mrs. A	Crana street
Sutcliffe, Miss	Clane street
Sutcliffe, Miss Emily B	"
*Tate, Mr. A. Norman, F.I.C9	Hackin's Hay, Liverpool
Tatler, Mr. A. A	May Bank, 11 Tarvin road
Tatlock, Mr. J	
Taylor, Mr. Hy. Enfield, J.P., M. II	nst. C.E. Aston Hall, Hawarden, Chester
Taylor, Mr. L. F.R.C S	Havgarth house, Newgate street
Taylor, Mr. John	Hoole Hall Gardens
Taylor, Mr. A. G	9 Paradise row
Taylor, Mr. J. Burnside4	Hough green
Taylor, Mr. R. Mascie	Tyn Llwyn, Corwen
Taylor, Mr. Hy., F.S.A	12 Curzon park

Taylor, Mrs. J. W	8 Ash Grove
Tennant Mrs	City walls (South)
Tennant Mice	(Cours wans (Cours)
Tennant, Mrs. Tennant, Miss Thomas, Mr. E.	ro Poppor street
Thomas Dr. E. I. II	to repper street
Thomas, Dr. E. J. Haynes	• •
Thomas, Miss	•• 11 11
Inomas, Miss M	,, 1,
*Thomas, Mr. H	12 Neville Crescent, Llandudno
Thomas, Mr. Maurice	. I Coal Exchange
Thomas, Mr. Felix	I Coal Exchange The Industrial Schools, Boughton
Thomas, Mr. E. H.	
Thomas, Mr. E. H	Brightholme Curzon nork
Thomson Micc T	Combrian view
Thomson, Miss I	Cambrian view Mrs. Hincks, Northgate street
Thornthwaite, Miss E. M	@ Mrs. rincks, Northgate street
Tilston, Miss	I King's buildings
Tinkler, Mr. G	45 Nicholas street
Tomkinson, Mr. Jas., J.P	Willington Hall, Chester
Tomkinson, Mr. Jas., J.P Tomlin, Mrs.	Thorpe villa, Liverpool road
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Trelawny, The Hon. Mrs Tyrer, Mrs. Alfred	TDI - 37
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Wright, Mr. A. J Bridge street row
Wright, Mrs , , , , ,
Wynne, Mr. Geo. F
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		BOTANICAL SECTION.
В	201	Grevillea; a Quarterly Record of Cryptogamic Botany and its Literature. Nos. 49 and 50, and 62 to 82 inclusive. Presented by A. O. Walker, Esq
		GEOLOGICAL SECTION.
G	160	Congrès Géologique International, Compte Rendu de la 4me Session, Londres, 1888
G	152	Eighth and Ninth Annual Reports of the United States Geological Survey, 1886-87 & 1887-88, 3 Parts1889-90
G	162	Morton (G. H.) The Geology of the Country around Liverpool, including the North of Flintshire. Presented by the Author 1891
G	131	Proceedings of the Geologists' Association, Vol. XI., 3 Parts; Vol. XII., 2 Parts1890-91
G	. 95	Proceedings of the Liverpool Geological Society, 1889-90. Part 2, Vol. VI
G		Strahan (A.) The Geology of the neighbour- hoods of Flint, Mold, and Ruthin. Memoirs of the Geological Survey. Presented by the Author
G		Transactions of the Liverpool Geological Association, Vols. IX and X., 1888-90 1890
G	116	Transactions of the Manchester Geological Society, Vol. XX., Parts 18 to 21; Vol. XXI., Parts 1 to 10
G	86	Vol. XLIV. of the Palæontographical Society, issued for 1890, containing— Nicholson's Stromatoporoids

Nicholson's Stromatoporoids
Sladen's Cretaceous Echinodermata (Asteroidea)
Buckman's Inferior Oolite Ammonites
Whidborne's Devonian Fauna of the South of
England
Duncan's Supplement to the Fossil Corals (Title
pages, &c.)

		MICROSCOPICAL SECTION.	
N	I	Transactions and Annual Report of the Man- chester Microscopical Society	1890
M	I 36	Quekett Microscopical Club's Journal, Vol. IV., Nos. 28 and 29. Presented by Dr. Stolterfoth	
		ZOOLOGICAL SECTION.	
Z	84	Blackwall (J.) History of the Spiders of Great Britain and Ireland	1861
Z	85	Cuvièr (G.) Recherches sur les Ossemens Fossiles, 11 Vols. Presented by Mrs. Chas. Kingsley18	34-36
Z	86	Journal of the Linnean Society, Parts 73 to 147 inclusive (Nos 124, 125, and 145 missing.) Presented by G. Claridge Druce, Esq	77-91
Z		Newstead (R.) On New Species of Coccidæ; On Wasps' Nests' Parasites (found in the Society's District)	1891
Z	87	Transactions of the Entomological Society of London for the year 1890, Parts 1 to 5; and 1891, Parts 1 and 2	
Z		Transactions of the Linnean Society, Second Series, Vol. I., No. 8; Vol. II., Parts 1 to 13 (Part 12 missing): Vol. III., Parts 1 to 6; Vol. IV., Parts 1 to 3; Vol. V., Parts 1, 2, 14, 17, & 18. Presented by G. Claridge Druce, Esq.	
			79-88
Z		Walker (A. O.) On the Higher Crustacea of Liverpool Bay, taken in 1889; On Pherusa fucicola (Leach.) Presented by the Author	1890
		MISCELLANEOUS SECTION.	
X	28	Annual Reports and Abstract of Papers of the Brighton and Sussex Natural History and Philosophical Society for 1888-90	

X 99 Annual Reports and Transactions of the North Staffordshire Naturalists' Field Club and Archæological Society, 1890 and 1891

Annual Report and Proceedings of the Liverpool Science Students' Association, Session 1889-90

X

X	107	Annual Report of the Board of Regents of the Smithsonian Institution, 1886, 1 Part; 1887, 2 Parts; 1888, 2 Parts; 1889, 1 Part1889-90
X		Bulletin of the Minnesota Academy of Natural Sciences, Vol. III., No. 1, 1883-86 1889
X		Fourth Annual Report of the Liverpool Marine Biological Station on Puffin Island 1891
X		Journal of the Elisha Mitchell Scientific Society (U.S.A.), 1889, Vol. VI., Part 2
X		Midland Naturalist, 4 Vols., 1879 to 1882. Presented by Mrs. Giles Griffith
X		North American Fauna, Nos. 3 and 4. (U.S. Department of Agriculture)
X		Proceedings of a Government Conference on Silk, held at Calcutta, January, 1886. Presented by T. Wardle, Esq
X		Proceedings of the Holmesdale Natural History Club for the years 1888 and 1889 1890
X	26	Proceedings of the Liverpool Naturalists' Field Club for 1890
X		Pubblicazioni della Specola Vaticana (Rome) 1891
X	29	Report and Proceedings of the Manchester Field Naturalists' and Archæologists' Society for 1889
X		Report and Proceedings of the Reading Literary and Scientific Society
X		Report and Transactions of the Cardiff Naturalists' Society, 2 Parts1889-90
X		Report and Transactions of the Guernsey Society of Natural Science and Local Research, 1889 1890
X		Report of the British Association, 1890 1891
X		Report of the Marlborough College Natural History Society, 1889
X	36	The Essex Naturalist (Journal of the Essex Field Club), April 1890, to May 1891
X		Transactions and Report of the Nottingham Naturalists' Society, 1889 and 1890
		"The Naturalist," the Monthly Parts of



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Notice.—Copies of the Society's Proceedings, (No. 1, price 6d., Nos. 2 and 3, price 2/6 each); also the Catalogue of the Society's Library, with recent additions (price 1d.) may be obtained from Mr. John Mills, Eastgate Row; Mr. G. R. Griffith, Grosvenor Street; or the Curator, Grosvenor Museum.



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ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,

FOR THE YEAR 1891-92.



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CHESTER SOCIETY

OF

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TWENTY-FIRST

ANNUAL REPORT

AND

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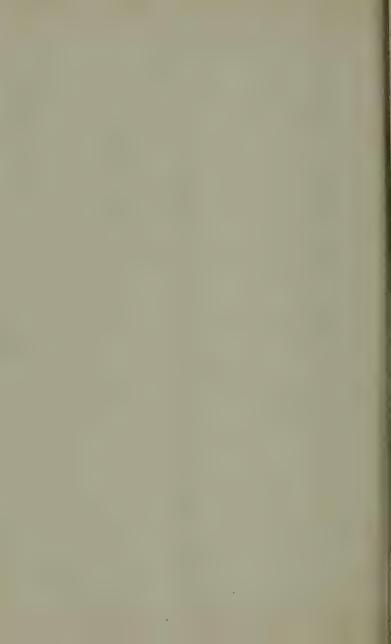
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RULES.

1 .- That the Title of this Society be "The Chester Society of Natural Science and Literature." and that its object be the promotion of the study of Natural Science by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2. - That the Officers be a President, Six Vice-Presidents, Treasurer, Three

Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above named Officers, who shall be Ex-Officio Members, and Six other Members of the Society-the President or a Vice-President the Chairman; and that the practical management of the Society be vested in a Committee, subject to the following Rules :-

4.—That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee previous to a General Meeting.

5.—That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life

Member upon payment of £5.

6.-That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five.

7. - That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section, may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8. - That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year.

9.—That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10.—That the Committee shall meet monthly for the despatch of business;

Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No Paper shall be read without the previous sanction of the Committee. Objects of scientific

interest may be exhibited at the Evening Meetings.

13 .- That at the Annual General Meeting which will be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot : the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries. Six Days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

Your Committee, in presenting this their Annual Report, beg to remind the Members of the Society that this is their Twenty-first Anniversary. In one sense the Society attains its majority, and in doing so we can only trust it has attained that maturity which, profiting by experience, may give it courage to enter on its future with renewed activity and zeal. The past twenty-one years have brought us in contact with great changes, but we still have amongst us many of those who shared our tentative efforts in the old Bishop's Palace, where now stands the King's School. This infancy of the Society was stimulated by the presiding genius and enthusiasm of our Founder, CHARLES KINGSLEY. In 1876 PROF. T. McKenny Hughes was elected President of the Society. By this time we had moved into the Albion Rooms, Lower Bridge Street, where much good work was done and many admirable Lectures delivered, and on the whole we may be said to have passed a vigorous boyhood. In 1886, by steady effort and the generous aid of patrons and friends, we attained the sum of our ambition. a Museum, in which to house and preserve our local collections, and in which we have also secured appliances and conveniences for carrying on our work which we never before possessed. In 1891 our President, PROF. T. McKenny Hughes, retired from the office he had occupied for fifteen years. Society will ever owe him a deep debt of gratitude for his ready sympathy and the many ways in which he promoted our best interests. As all work tends to development we have of late been adding to our numbers many young and ardent students, and their tendency has necessarily been to take up new subjects and to divide into small Sections; but as these Sections depend greatly on the enthusiasm of a few, they hold their position only for a time. One Section which has been

recently started would, however, have delighted the heart of our Founder. It is the Literary Section. Literature should always hold a large place in human thought and aspiration. If this Section is well managed and supported it will be a source of strength to our whole body, for how many of the bare facts of Natural Science appear dry and uninteresting when taken alone. It requires the poetic thought of a Goethe to rehabilitate the dead bones, or the philosophic genius of a Wendle Holmes to make us lay hold of the broader facts in nature, and trace their far reaching consequences both as a training to the mind and an awakening of a true perception of their value.

We have now 660 Members in the Society; 43 new Members have joined us in the past year. We have lost, by death and removal, 17 Members.

Amongst our Honorary Members we mourn the death of MRS. KINGSLEY, who, by her many acts of kindness, and by her admirable Life of her husband, has helped to keep alive the memory of one to whom Chester and this Society owe so much.

We have now in the Natural History Room a copy of Woolner's Bust of Charles Kingsley, presented to the Society by Miss Kingsley.

We have also to record the death of Prof. Sterry Hunt, of Montreal, Canada. Many of us can recall, with pleasure, his being with us at our Conversazione in 1887, when so many famous Geologists visited this country for the Geological Conference held under our late President, Prof. T. McKenny Hughes.

In the first list of our Members will be found the name of Mr. J. Tatlock, late City Coroner. In his death we have a great loss. He was a staunch supporter of our Society, and has made us many valuable presents. At the building of this Museum he acted as legal adviser to the Committee, and not only gave his services but also presented the Legal Stamp Duties (no small sum) as his subscription. He was a skilled

Microscopist, and always present with his Microscope at our Annual Conversaziones.

With much regret we have also to announce the death of Mr. W. H. Okell. He was known to most of us, as for nine years he occupied the position of one of our General Secretaries. We greatly esteemed him for his high character and untiring industry, and his loss will be felt by all the Members of our Society. To the last he took a deep interest in our work and in the general management of the Museum.

During the past year Mr. A. O. WALKER has been our President. He has always been a true helper to the Society, and though now living away from Chester he has endeavoured to keep up the old traditions, and been frequently present at our Meetings.

Although the space given to our Natural History Collection is very limited, our indefatigable Curator, Mr. Newstead, has been adding considerably to our store of specimens. Of necessity, only a small portion of what he has prepared can be displayed. When more room is placed at our disposal by the Museum Management Committee, through the proposed extension of the Building, we shall be enabled to show a good local collection worthy of the district. The Curator's Report will give the details of the work done during the past year.

The Library is in good order, and the Society has acquired, by purchase, Sowerby's British Botany in 8 Vols. This will prove a valuable book of reference to all who take an interest in the subject.

The Accounts of the Kingsley Memorial Fund will be laid before you by the Honorary Treasurer, Mr. E. J. BAILLIE.

The usual programme of the Society's work is presented under the following heads:—

Excursions
Evening Rambles
General Meetings

SECTIONAL MEETINGS CONVERSAZIONE PRIZES The following Excursions were made during the past summer:—

EVENING RAMBLES.

 June 1st
 The Gardens and Serpentine, Eaton.

 ,, 9th
 Blacon.

 ,, 17th
 Upton Nurseries.

 July 1st
 Christleton Hall Gardens.

 ,, 9th
 Waverton.

 ,, 15th
 Delamere.

 ,, 20th
 Eaton.

 ,, 29th
 Atchmere.

 Aug. 7th
 Helsby Hill.

It will be seen that four Excursions to distant places were arranged. These were fairly attended. The expedition to Vaynol Park, which promised to be one of the most enjoyable, was sadly damped by the accident which happened early in the day to Mr. Shepheard. Happily it did not turn out as serious as was first apprehended.

The Committee have great cause for thankfulness that in the past twenty-one years the Society has been spared any serious accident, as there is always an element of danger when a large body of people are moving about and when enthusiasm gets the better of prudence.

The Evening Rambles have again been on a more extended scale, and when the locality is popular we have had good attendances.

The Annual Conversazione took place in the Grosvenor Museum, on September 30th, and was, as usual, well attended. The Kingsley Memorial Medal was presented to Mr. R. Newstead, F.E.S., by the Countess Grosvenor. The Society owes much to Mr. Newstead in many ways. His admirable work as Curator cannot be too highly spoken of, and his original notes and observations with regard to the life-

history of Injurious Insects will leave a permanent mark in Entomological Science, enabling him to give useful information and suggestions of great value to the Agriculturist. Already, Gardeners and Farmers are waking up to the fact that when their crops sustain injury it is well to seek the cause and the means of prevention, and for work in this direction alone Mr. Newstead has proved himself pre-eminently worthy of the Medal.

For the first time there have been no collections sent in for the Kingsley Prize. This is much to be regretted, and it is to be hoped that in future this great aid towards keeping up our local collections will not be neglected.

During the past winter the following General Meetings have been held:—

1891.

Oct. 28—"The Climate of the North Coast of North Wales," by A. O. WALKER, Esq., President of the Society.

Nov. 26—"On Mimicry in the Lepidoptera," by Col. Charles Swinhoe, F.L.S., F.Z.S., &c., of Oxford.

1892.

Jan. 28—"To Ober Ammergau and Back in 1890," by W. LAMOND HOWIE, ESQ., F.C.S.

Feb. 25—" Mexico," by Charles Lancaster, Esq.

Mar. 31-"Egypt," by the REV. H. B. BLOGG, M.A.

Apr. 28—Annual Meeting.

On the whole, the Lectures have been better attended than usual, though there have been some few exceptions, accounted for by the deterrent effects of bad weather. We must also take into account the Courses now carried on at our Museum under the Oxford Extension Scheme. In early days our Society was the only body which provided this form of mental culture, and the way in which first-class Lectures on various subjects have been appreciated during the last year may well stimulate us to greater efforts in our own especial line of work. Our Society ought now to look for strength to its Sectional Meetings. Good Papers, followed by discussion, would tend to bring out the knowledge and experience of our Members, and we might then

look for Papers worthy of publication, which would bring us in contact with other Societies investigating kindred branches of Natural Science.

The Sections into which our Society is divided have met as follows:—

PHOTOGRAPHIC AND LITERATURE SECTIONS.

Separate Reports are given of these Sections, which will be found under their respective headings.

BOTANICAL SECTION.

1891.

Nov. 5-"Lichens: Notes on their Life-history," by Mr. J. D. SIDDALL, Chairman,

Dec. 17—Special Microscopical Evening—Discussion, Conversation.

1892.

Jan. 21—"The Birth and Growth of Horticulture," by Mr. G. P. MILN, Secretary.

Mar. 17-An Exhibition of Hardy Spring Flowers.

ZOOLOGICAL SECTION.

1801.

Nov. 12—Mr. Newstead, the Curator, explained and illustrated, with specimens and diagrams, his work during the past year.

1892.

Feb. 4-Conversational Evening.

Mar. 24-Micro-Zoology, by Members of the Section.

GEOLOGICAL SECTION.

1891.

Nov. 19-"Salt," by Mr. A. W. Lucas, F.G.S., Secretary.

1802

Jan. 7-"Subterranean Erosion," by MR. W. SHONE, F.G.S., Chairman.

Feb. 18—"The origin of the present Estuaries of the Ribble, the Mersey, and the Dee," by Mr. W. Shone, Chairman.

Apr. 7-"Coal: its Nature and History," by Mr. A. W. Lucas, F.G.S., Secretary.

The Natural History Sections have had a fair amount of Meetings, but the attendance in many cases has been small, and we have had to depend upon our earliest friends and supporters for all the work which has been done.

NATURAL PHILOSOPHY SECTION.

1891.

Dec. 3—"The Manufacture and Properties of Carbolic Acid and its Derivatives," by Mr. J. Bairstow, Queen's Ferry Chemical Works.

1802.

Mar. 3—"From an Oil Well to a Candle," by Mr. J. BATEMAN, Dee Oil Company's Candle Works.

Apr. 21-" Modern Views of Chemistry," by MR. F. E. FRANCIS.

We have to congratulate this Section on having brought forward three new contributors of Papers, which have been excellent in quality and awakened much interest in subjects not previously treated.

Your Committee have met frequently during the past year for the purpose of arranging Excursions and Lectures, and in this way we have endeavoured to stimulate our Members to fresh exertion.

Without the aid of the Members of the Society your Committee would be powerless for good, and therefore we must call on all to do their best during the coming year, so that our Twenty-second Anniversary may show no falling off from the pleasant memories of the past twenty-one years.

HENRY STOLTERFOTH,

Scientific Secretary.

APRIL 28TH, 1892.



CURATOR'S REPORT.

The total of the number of Species and Specimens sent in during the past twelve months is less than half that of the previous year; this is partly due to the fact that your Curator has done less collecting than in previous years, owing to the original work he has done in connection with the study of the Coccidæ, or Scale Insects, to which group he has added during the past year seven species new to science. Five of them are from the Society's district.

The collection of *Lepidoptera* has been considerably increased in species and series by Mr. J. Arkle, as will be seen on referring to the List of Donations. A few additional species have been added to the *Hymenoptera* by exchange, and several life-histories of insects have been prepared and others renovated.

We are again considerably indebted to the following gentlemen for their valuable help in the identification of specimens:—Mr. Edward Saunders, F.E.S., Woking; Mr. J. W. Douglas, F.E.S., Lewisham; Mr. A. O. Walker, F.L.S.; Dr. C. V. Riley, Washington, D.C.

HIS GRACE THE DUKE OF WESTMINSTER, K.G., has been fortunate in procuring for us some very interesting additions, among which may be mentioned the Pine Marten (Martes fiona. Gmel.)

No additional life-histories of Birds have been prepared.

Mr. Brockton Tomlin has for several years rendered valuable help in the identification of Shells, and helped in their arrangement, which is gratefully acknowledged. The Kingsley Memorial Collection of Shells by Mr. A. J. Nixon, has been arranged in one of the Entomological Cabinets.

The Geological department has been considerably increased by the very interesting collection of Cave Bones, from the Plas Heaton Cave, kindly lent by MAJOR W. HEATON. The collection contains the only remains of the Glutton or Wolverine (Gulo luscus.)

MAJOR HEATON has also presented a collection of duplicate specimens from the same cave; these, together with the loan collection, are, at present, on view on the first landing, as no space can be provided for them in the Natural History room, which is already overcrowded. The want of space has become a very serious item indeed; cases of exhibits are crammed together in the hall and vestibule, and in every available space in the science class-rooms, entirely destroying scientific arrangement. And what is equally bad, many of the cases are constantly being removed for the accommodation of the various lectures that are given in the Institution.

Your Curator acknowledges with thanks the assistance rendered by the following for the loan of their Reference Books:—Mr. A. O. Walker, F.L.S., Miss Tomlin, Mr. L. E. Duckworth, Mr. T. Shepheard, Mr. Ed. Saunders, F.E.S.

In concluding this Report, your Curator thanks all those who have kindly helped by their donations, and the Committee for their kind encouragement.

The following is the total abstract of the number of Species and Specimens sent in during the past year:—

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[•] The total does not include specimens of the genus Diaspis, Mytilaspis, and Chionaspis.

LIST OF DONORS.

	CŒL	ENTE	RATA.				
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Mr. A. O. Walker Miss Tomlin	••	• •	••	• •	2	-	2
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Mr. A. O. Walker				•••	15		20
,, G. P. Miln					-3 I		10
,, B. Kendrick					I		2
,, A. T. Gillanders					I		12
" Thos. Shepheard					I	_	I
" Harker, Liverpool		• •			I	_	2
Miss Tomlin					2		12
,, Kimber, Newbury					2		3
Curator					25	_	30
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ORTHO	PTERA	1 (Gras	shoppe	rs,	&c.)		
Mr. A. O. Walker	• •	• •	••		I	_	1
HYM	IENOP	TERA	(Bees,	&c.)			
Mr. Chalton					1		1
Miss Kimber, Newbury					2		3
" E. C. Tomlin					5		9*
Mr. Willoughby Gardne					5	_	7*
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" Weaver	• •	• •	••	• •	I		I
" Wynne, Minera	• •	* * -	• •	**	I		I
" Jas. Clutton	••	• •	• •	• •	I	_	I
" J. P. Earwaker	• •	**	• •	• •	I		I
" A. Cookson, Oakm	ere	• •	• •	• •	I		1
" F. R. Bolland	• •	**	• •	• •	17		23
,, Geo. Frater	• •	**		• •	3	-	5
Miss Kimber	• •		• •	• •	2	_	8
,, Tomlin	• •		• •	• •	1	-	12
Captain Griffith	• •		• •	• •	I	-	I
The Curator					5	-	10

^{*} These by exchange.

COCCIDÆ (Scale Insects.)

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Miss Tomlin	• •	• •			I	_	IO
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Dr. Stolterfoth	• •	• •	**	• •	I	_	3
Curator	••		• •	• •	14		••
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Mr. E. J. Baillie	• •	• •	• •	• •	I		
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Mr. W. G. Crum	• •				I		I
" R. P. Bradbury			3.	• •	2	_	5
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Master C. Harding			• •	• •	I		I
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Mr. A. O. Walker	• •	• •			3	_	• •
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Mr. Alfred Beaumont,		am	••		Hyn	nenop	tera
,, ,,	,,					ipter	

R. NEWSTEAD, F.E.S.,

28th April, 1892.

CURATOR.

The Hon. Treasurer in account with the Chester Society of Natural Science and Literature, for the Year ending April 30th, 1892.

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Dr. & s. d. & s. d.	, o	£ s. d.	d.
1891-2.	1891-2.		
By Subscriptions—	To Balance due to Treasurer	4	1/2
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		2 12	9
	" Alfred Newstead, one Quarter's Wages	0 OI I	0
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27TH MAY, 1892-Examined and found correct, shewing a balance due to the Treasurer of Six Pounds Ten Shillings and Twopence Halfpenny.

JOHN MILLS, HON. TREASURER.

HON. AUDITORS. BERESFORD ADAMS,

C. R. ENOCK,

"KINGSLEY MEMORIAL" FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1892.

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23RD AFRIL, 1892—Examined and found Correct, W. VINCENT,

HON. AUDITOR.

EDMUND J. BAILLIE, Hon. Treasurer, 22nd April, 1892.

PHOTOGRAPHIC SECTION.

REPORT.

YOUR Committee in presenting their fourth Annual Report tender the best thanks of the Section to those gentlemen who, by papers and demonstrations, have given interest to the Meetings held during the Winter Session, and ask for further contributions from the Members, especially in the direction of demonstrations and papers on practical Photography.

It is with great pleasure that your Committee record the fact that a lady member has again brought honour to the Section by winning the Gold Medal in the "Amateur Photographer" Ladies' Competition.

To encourage to technical and artistic excellence your Committee hope to institute a prize fund from which awards may be given to work of Members showing conspicuous merit. For such purpose it is intended to hold an Exhibition of Photographic Prints and Transparencies in connection with the Annual Conversazione of the Society to be held in the Autumn.

Your Committee are also engaged in formulating a scheme whereby the energies of the Members of the Section may be combined in making a Photographic Survey of Chester and the neighbourhood, so that prints and lantern slides may be secured illustrating the architecture, antiquities, and history of the old City and its surroundings. Such an effort would not only guide the work of the Members in a definite direction but be the means of collecting together a set of Lantern Slides which, with the additon of a descriptive Lecture, might be loaned to kindred Societies and thus give pleasure to hundreds to whom the beauties of Chester and neighbourhood may be as yet a closed book. Further particulars will be given to the Members shortly, together with any arrangements which may be made for Photographic Excursions, &c.

Your Committee venture to hope that the Summer of 1892 may yield photographic fruit worthy the twenty-first anniversary of the birth of the Chester Society of Natural Science and Literature.

The following Sectional Meetings have been held:—

- Nov. 30.—"New Kodaks" and "Exhibition of Lantern Slides from Kodak Negatives," by Mr. H. M. SMITH, The Eastman Photographic Materials Company, London.
- Dec. 10.—"A simple method of determining, in the Dark Room, the sensitiveness of a Photographic Plate, as referred to a Standard Candle," by Mr. E. G. BALLARD, A.R.S.M.

1802.

- Jan. 11.—Exhibition of "Photography," 1891, Hand-Camera Pictures and discussion on Hand-Cameras.
- Feb. 11.—Exhibition of "Amateur Photographer," 1891 Prize Lantern Slides.
- March 10.—" Demonstration on Lantern Slide making on Chloride Plates," by Mr. G. F. Wynne.
- March 28.-Exhibition of Lantern Slides by Members of the Section.

J. H. SPENCER,

HON, SECRETARY.

28TH APRIL, 1892.



PHOTOGRAPHIC SECTION.

BALANCE SHEET TO 31st MARCH, 1892.

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JUNE 3RD, 1892—Examined and found correct,

BERESFORD ADAMS,

HON. AUDITOR.

SECTION OF LITERATURE.

The Meetings have been generally well attended, and in view of the impulse to the study of Literature given by the Oxford University Extension Lectures, it is hoped that the Meetings of the Section may be found increasingly useful.

1891.

Nov. 2-" Jane Austen," by Mr. BERNARD PARES, B.A.

Dec. 7-"Tennyson's Shorter Poems," by Rev. A. H. Fish, B.A., B.Sc. 1892.

Feb. 8-"A Visit to some French Schools and Training Colleges," by MRS. HENRY SANDFORD.

Mar. 7-"The Supernatural in English Literature, by REV. CANON MORRIS, D.D.

ARTHUR H. FISH,

Hon. Secretary.

APRIL 28TH, 1892.



KINGSLEY MEMORIAL MEDAL,

· ESTABLISHED 1877,

"For having contributed materially to the promotion and advancement of some branch or department of Natural Science."—Vide Trust Deed.

1877-MRS. CHAS. KINGSLEY (In Memoriam.)

1878-JOHN PRICE, M.A.

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1880-PROF. T. MCKENNY HUGHES, F.R.S.

1881-D. MACKINTOSH, F.G.S.

1882-ISAAC BYERLEY, M.R.C.S., F.L.S.

1883-GEORGE W. SHRUBSOLE, F.G.S.

1884-Alfred Osten Walker, F.L.S.

1885-JOHN DAVIES SIDDALL.

1886-HENRY STOLTERFOTH, M.A., M.D.

1887-WILLIAM SHONE, F.G.S.

1888—Thomas Shepheard, F.R.M.S.

1889-Thos. Ruddy.

1890-Rev. Chas. Wolley-Dod, M.A.

1891-ROBERT NEWSTEAD, F.E.S.

KINGSLEY MEMORIAL PRIZES,

ESTABLISHED 1877,

"For the reward, encouragement, and the advancement of the pursuit and study of Natural Science."—Vide Trust Deed.

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1879—GEORGE SHRUBSOLE .. 5 Carboniferous Fossils.

1881—E. HOPKINS....... 5 Cryptogamous Plants.
1882—GEORGE SHRUBSOLE., 10 Corals of the Mountain Limestone,

1886-ROBERT NEWSTEAD .. 10 Hymenoptera.

1887—JOHN LYON DENSON.. 5 Notes of Observations illustrating the Natural Science of the Society's District.

1888-LILIAN E. TOMLIN .. 5 Coleoptera.

EDITH C. TOMLIN 5 Diptera and Hymenoptera (Terebrantia), &c., W. E. SHARP 5 Coleoptera.

1890-ALFRED J. NIXON .. 10 Land and Fresh-Water Shells.

KINGSLEY MEMORIAL PRIZES.

Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition, and which have already been advertised in local and other newspapers:—

1892.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above Prize, the Committee have decided that, in order to encourage scientific research, they will make Grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

*** All Collections must be made in Cheshire or North Wales, or the Seas adjoining thereto, by the persons competing.

The Collections, Essays, or Notes of Observations, may be sent in to either of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

Intending Competitors can obtain all particulars, and the conditions under which the Prizes are offered, from either of the General Secretaries; and all Collections, &c., must be sent in to either of them on or before the 1st September in each year.

SOCIETIES ASSOCIATED.

WITH WHICH THE SOCIETY EXCHANGES PUBLICATIONS.

Academia Nacional de Ciencias de la Republica, Argentina, Cordoba.

Barrow Naturalists' Field Club.

Brighton and Sussex Natural History Society.

Bristol Naturalists' Society.

British Museum (Natural History), Cromwell Road, London, S.W.

Burnley Literary and Scientific Club.

Cardiff Naturalists' Society.

Cassel Society of Natural Science.

Dudley and Midland Geological and Scientific Society and Field Club.

Epping Forest and County of Essex Naturalists' Field Club. Glasgow Natural History Society.

Hertfordshire Natural History Society and Field Club.

Huddersfield Naturalists' Society.

La Société d'Histoire Naturelle de St. Wladimir á Kiew, Russie.

Leeds Naturalists' Club.

Liverpool Geological Society.

Liverpool Geological Association.

Liverpool Literary and Philosophical Society.

Liverpool Microscopical Society. Liverpool Naturalists' Field Club

Liverpool Science Students' Association.

Manchester Field Naturalists' Society. Manchester Geological Society.

Manchester Microscopical Society. Menai Society of Natural Science.

Northampton Natural History and Field Club.

North Staffordshire Naturalists' Field Club and Archælogical Society.

Nottingham Naturalists' Society. Postal Microscopical Society.

Quekett Microscopical Society.

Rochdale Field Naturalists' Society. Smithsonian Institution, Washington, D.C.

United States Geological Survey.

Vatican Observatory, Rome (F. Francis Denza, Director.)

Vienna Natural History Museum.

Wigan Literary and Scientific Society.

Yorkshire Naturalists' Union.

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NOTICE.

THE ANNUAL SUBSCRIPTIONS are due on the 1st of May in each year. Members who have not paid for the present year are respectfully requested to forward the amount (Five Shillings) to the Hon. Treasurer, Mr., JOHN MILLS, Chemist, Eastgate Row.

To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary, according to Rule 8.

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Hamel, Miss 9 Abbey street
Hamel, Miss
Hall, Mr. M. J. "" Hamel, Miss 9 Abbey street Hamilton, Mr. A., M.R.C.S. 16 White Friars Hankey, Mr. Lee Rock Mount, Liverpool road
Trankey, Mr. Lee
Trankey, Mr. Lee
Hankey, Miss C. M
Hankey, Mis C. M. "," Hardy, Mr. J. E
Hankey, Mis C. M. "," Hardy, Mr. J. E
Hankey, Miss C. M
Hankey, Miss C. M. Hardy, Mr. J. E. Hardy, Mr. J. E. The Blue Coat School, The Northgate Harnaman, Mr. J. M. St. John's Schools, Alvanley Harrison, Miss 20 Lorne street Harrison, Mrs. Jno. Ashton House, New Crane street Harrison, Mr N. Highfield, Curzon park Harrison, Mr S. Harrison, Mr G. H. Ashville, Helsby Heblethwaite, Mr. John W. Green Bank, Eaton Road Henderson, Mr. J. E. 10, Pathway, Oueen's park
Hankey, Miss C. M. Hardy, Mr. J. E. Hardy, Mr. J. E. The Blue Coat School, The Northgate Harnaman, Mr. J. M. St. John's Schools, Alvanley Harrison, Miss 20 Lorne street Harrison, Mrs. Jno. Ashton House, New Crane street Harrison, Mr N. Highfield, Curzon park Harrison, Mr S. Harrison, Mr G. H. Ashville, Helsby Heblethwaite, Mr. John W. Green Bank, Eaton Road Henderson, Mr. J. E. 10, Pathway, Oueen's park
Hankey, Miss C. M. Hardy, Mr. J. E. Hardy, Mr. J. E. Harnaman, Mr. J. M. St. John's Schools, Alvanley Harrison, Miss 20 Lorne street Harrison, Mrs. Jno. Ashton House, New Crane street Harrison, Mr N. Highfield, Curzon park Harrison, Mrs. Harrison, Mr M.
Hankey, Miss C. M. Hardy, Mr. J. E. Hardy, Mr. J. E. Harnaman, Mr. J. M. St. John's Schools, Alvanley Harrison, Miss 20 Lorne street Harrison, Mrs. Jno. Harhison, Mrs. Jno. Highfield, Curzon park Harrison, Mrs. Henderson, Mr. J. E. Henderson, Mr. Wm. Henderson, Mr. Wm. 11 Union walk Henderson, Mr. T. The Hellieg Livernel and
Hankey, Miss C. M. Hardy, Mr. J. E. Hardy, Mr. J. E. Harnaman, Mr. J. M. St. John's Schools, Alvanley Harrison, Miss 20 Lorne street Harrison, Mrs. Jno. Harhison, Mrs. Jno. Highfield, Curzon park Harrison, Mrs. Henderson, Mr. J. E. Henderson, Mr. Wm. Henderson, Mr. Wm. 11 Union walk Henderson, Mr. T. The Hellieg Livernel and
Hankey, Miss C. M. Hardy, Mr. J. E. Hardy, Mr. J. E. Harnaman, Mr. J. M. St. John's Schools, Alvanley Harrison, Miss 20 Lorne street Harrison, Mrs. Jno. Harhison, Mrs. Jno. Highfield, Curzon park Harrison, Mrs. Henderson, Mr. J. E. Henderson, Mr. Wm. Henderson, Mr. Wm. 11 Union walk Henderson, Mr. T. The Hellieg Livernel and
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Hankey, Miss C. M. Hardy, Mr. J. E. Hardy, Mr. J. E. Harnaman, Mr. J. M. St. John's Schools, Alvanley Harrison, Miss 20 Lorne street Harrison, Mrs. Jno. Hardy, Mr. J. M. Highfield, Curzon park Harrison, Mrs. Harrison, Mr. G. H. Harrison, Mr. G. H. Harrison, Mr. J. E. 19, Pathway, Queen's park Henderson, Mr. J. E. Henderson, Mr. Wm. Henderson, Mr. T. Henshaw, Mr. T. Henshaw, Mr. T. Henshaw, Miss Edith E. Henshaw, Miss Florence M. "" Heppel, Miss 8. Hough Green
Hankey, Miss C. M. Hardy, Mr. J. E. Hardy, Mr. J. E. Harnaman, Mr. J. M. St. John's Schools, Alvanley Harrison, Miss 20 Lorne street Harrison, Mrs. Jno. Ashton House, New Crane street Harrison, Mr N. Harrison, Mr N. Harrison, Mr N. Harrison, Mr S. Harrison, Mr N. Harrison, Mr N. Harrison, Mr N. Harrison, Mr N. Hawell, Mr. G. H. Ashville, Helsby Heblethwaite, Mr. John W. Green Bank, Eaton Road Henderson, Mis. J. Henderson, Mis. M. Henderson, Mr. J. E. Henshaw, Mr. T. Henshaw, Mr. T. Henshaw, Mr. T. Henshaw, Miss Edith E. "" Henshaw, Miss Florence M. "" Heppel, Miss S. Hough Green Herne, Col. Delamere House, Liverpool road
Hankey, Miss C. M. Hardy, Mr. J. E. Hardy, Mr. J. E. Harnaman, Mr. J. M. St. John's Schools, Alvanley Harrison, Miss 20 Lorne street Harrison, Mrs. Jno. Hardy, Mr. J. M. Highfield, Curzon park Harrison, Mrs. Harrison, Mr. G. H. Harrison, Mr. G. H. Harrison, Mr. J. E. 19, Pathway, Queen's park Henderson, Mr. J. E. Henderson, Mr. Wm. Henderson, Mr. T. Henshaw, Mr. T. Henshaw, Mr. T. Henshaw, Miss Edith E. Henshaw, Miss Florence M. "" Heppel, Miss 8. Hough Green

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Hickman, Mr. F. F.	
Hickman, Miss	17 The Groves
Higgins, Miss Eva	The Manor, Overleigh
Higgins, Miss Millie Higgins, Mr. W. H	
Higgins, Mr. W. H	St Martin's in-the-fields
Hignett, Mrs. T. H	
Hignett, Mrs. T. H	18 Hough green
imiyard, Kev. Canon, M.A	Okcioiu, Dampion, IV. Devon
Hincks, Mr. H. T.	61 Northgate street
Hobday, Mr. J.	Alexandra villa, Liverpool road
Hobday Mr F	
Hobday, Mr. Jas	22 The Groves
*Hodges, Mr. W.	21 Hough green
*Hobday, Mr. Jas *Hodges, Mr. W. Hodges, Mr. T. R. Hodges, Mrs A. G.	
Hodges Miss A G	** ** ** **
Hodkinson, Mr. E. *Holland, Mr. R., M.R.A.C.	2° Penner street
*Holland Mr R MR A C	Mill Rank House Frodeham
Holme, Rev. A. P., M.A.	Great Rudworth Northwich
Holman Mr. T. C.	Polmont Curson north
Hoole Don Mr Consum 35 A	Belmont, Curzon park Thornton Rectory, near Chester
Hoole, Rev. W. Spooner, M.A.	I normion Rectory, near Chester
Hopkins, Mrs Hopkins, Mr. T., M.B.	32 Queen street
Hopkins, Mr. I., M.B.	oo watergate street
Horabin, Mr. T.	16 Newgate street
Horton, Mr. H. R.	74 Brook street
Hostage, Mr. George B	28 Eaton road
Hostage, Mrs	
Hostage, Miss	22 Eaton road
Howson, Rev. I. F., M A	Egerton House, Upper Northgate street
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Howson, Miss	,, ,, ,,
Howson, Miss M.	, , ,, ,, ,,
Howson, Miss M	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,
Howson, Miss M	
Howson, Miss Howson, Miss M. Howson, Rev. G. J., M.A. Hudson. Mrs. R. S. Hughes. Mrs. McKenny	A Ulinira Terrace. Ulampridge
Hugnes Mrs. McKenny	A Ulinira Terrace. Ulampridge
Hugnes Mrs. McKenny	A Ulinira Terrace. Ulampridge
Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C.	Town Hall, Manchester Uffington House, Dee hills
Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C.	Town Hall, Manchester Uffington House, Dee hills
Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs. Hughes, Mr John	Town Hall, Manchester Uffington House, Dee hills City road
Hughes, Mr. Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs. Hughes, Mr John Hughson, Mr. A.	4 Cintra terrace, Camoridge Town Hall, ManchesterUffington House, Dee hillsCity roadCrossloom villas, Mollington
Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C Hughes, Mrs. Hughes, Mr John Hughson, Mr. A. Humberston, Miss	Town Hall, Manchester Town Hall, Manchester Uffington House, Dee hills City road Crossloom villas, Mollington Newton Hall, Chester
Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C Hughes, Mrs. Hughes, Mr John Hughson, Mr. A. Humberston, Miss. Humphreys, Mr. E. Noel	Town Hall, Manchester Uffington House, Dee hills City road Crossloom villas, Mollington Newton Hall, Chester Berby Place, Hoole
Hughes, Mrs. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C Hughes, Mrs. Hughes, Mr John Hughson, Mr. A. Humberston, Miss	Town Hall, Manchester Uffington House, Dee hills City road Crossloom villas, Mollington Newton Hall, Chester Berby Place, Hoole
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Hughes, Mr. Mr. McKenny Hughes, Mr. Thos. Cann, B.A. *Hughes, Mr. Hos. Cann, B.A. *Hughes, Mr. Hohn Hughson, Mr. A. Humberston, Miss. Humphreys, Mr. E. Noel Humphreys, Miss Jackson, Mr. Roger Jackson, Miss. Jacob, Rev. Joseph, M.A. Jayne, Mr. Ernest *Jebb, Mr. G. R., C.E. *Jeffs, Mr. O. W. Jennings, Mr. Constantine Jennings, Mr. Charles Jehcott, Mr. Charles Johnson, Major	tontra terrace, Camoridge Town Hall, Manchester Uffington House, Dee hills City road Crossloom villas, Mollington Newton Hall, Chester 8 Derby Place, Hoole Bridgegate House 26 Hough green Whitewell Rectory, Whitehurch (Salop) The Palace, Dee side Fairyfield, Great Bar, Birmingham 12, Queen's road, Rock Ferry The Studio, Bridge street 13 Lorne street (North) 9 Upper Northgate street
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Keeble, Rev. S. E 3 Hawthorne villas, Flookersbrook
Kelham, Mr. Augustus3 Eversley park, Liverpool road
W.dall Mic. M. Abetic out I isomel and
Kelsall, Miss M Abbot's court, Liverpool road
Kemp, Mr. George 59 Bridge street
Kenyon, Mr. G. A., M.BFlookersbrook
King, Dr. H. W 18 Newgate street
King, Mrs,
Kingsley, Miss
Kingsley, Mr G. A.
Kingsley, Mr. G. A
Knowles, Mr. E. RGrosvenor street
Wannangla Ma E M Canal a Cartle street
Kynnersley, Mr. E. M. Sneyd 24 Castle street
Lacy, Mrs Moor Holme, Neston
Lamont, Mr. A 3 City Walls (West)
Lamont, Mr. A., Junr,
Tamont Miss. , juni, ,, ,,
Lamont, Miss,
Lamont, Miss, ,,, Lanceley, Mr. R. HVictoria road
Latham, Mr. J. S Green Bank, Liverpool road
*Lawrence, Dr. A The Asylum, Chester
Leighton, Mr. A. G
Lewis, Rev. I. S., M.A., Guilsfield Vicarage, Welshpool
Linnell, Mr. George F The Old Bank, Chester
Lipsham, Mr. F
Title Min
Littler, Miss
Lloyd, His Honour Sir Horatio Stanley place
Lloyd, Mr. E. Honoratus32 Prince's square, Bayswater, London
Lloyd, Mr. E. Honoratus32 Prince's square, Bayswater, London
Lloyd, Mrs. E Abbot's mount, Liverpool road
Lloyd, Mrs. E
*Lockwood, Mr. T. M., F.R.I.B.A 80 Foregate street Lomax, Mr. F. T
Longy Mr E T
I on a hottom Mr F W
Bong bottom, Mil. I. W
Longbottom, Mrs
Lowe, Mr. G. B
Lowe, Miss C. H , , ,
*Lowe, Mr. W. F., A.R.S.M., \ 21 Granville road Cambrian view
F.I.C., F.C.S.
Lowe, Mrs, ,, ,,
Lowe Mr Jas F B A Dee Banks
Lowe Mrs
*Tuest Mr A M CCC Microsia nothway Owen's nark
*Lucas, Mr. A. W., F.G.S
Luid, Mrs Inorpe vina, Liverpool road
Luxmoore, Mr. E. B., J.P., F.G.S., Bryn-Asaph, St. Asaph
*Macdonald Mr G 2 Abbey square
*Macdonald, Mr. G
Manley, Mr. H
*Manning, Mr. J. BThe Governor's House, H.M. Prison
Pentonville, London
Manning, Miss Edith 18 Upper Northgate street
Mann, Mr. A., M.B
Mannington, Mr Herbert T, Flint
Marchant, Mr. W. H Whitefriars House
Marsden, Miss 6 Gosvenor park road
Mason, Mr. F. B 3 Lorne street (North)
Massia Admiral 2 Stanlay place
Massie, Admiral
Massy, Miss Greenbank, Latenford

Mawdsley, Miss M. M8	Eaton road
Maredelow Mice T G	
	,,
McEwen, Mrs.	6 Nicholas street
McEwen, Mrs.	Idford Chester
McKindlay, Mr. Andrew	Sichmond Bank Roughton
Meakin, Mrs	E-state row
Mills, Mrs	27 21
Mills, Mrs*Miln, Mr G. P2	7 Chichester street
Miln, Mrs. Milne, Mr.	
Milne, Mr8	Ash Grove, Wrexham road
Milne, Mrs. Minshull, Mr. E.	,, ,,
Minchell Mr. E.	The Northgate
Minchell Miss	., ,,
Minshull, Miss	bbot's villas. Liverpool road
Moreton, Mr. J. E., F.R.C.S.	Carvin
Moreton, Mr. J. E., P.R. C.S.	
Moreton, Mrs	Inton Chester
Morris, Miss Margaret	Wilton House Penner street
Morris, Miss Margaret	Viiton House, 1 epper sereet
Morris, W. J	NORIOH VIIIa, Upton para
Musgrave, Mrs	5 White iriars
*Newstead, Mr. R., F.E.S	The Grosvenor Museum
Nicholls Mr G. F.	2 Chichester street
Nicholls, Mr. G. F. Nicholson, Mr. J. M.	Little Sutton, Chester
Micholson, Mir. J. Mr.	,
	27 (2)
*Okell, Mr. E. W	22 Northgate street
Olzoll Mr P H	Northgate street
*Olcall Miss M H	Curzon park
Okell, Miss A. Oldfield, Mrs.	,, ,,
Oldfield Mrs.	68 Northgate street
Oldfield Miss	Bryn Clwyd, St. Asaph
Oldfield, Miss. Oldmeadow, Mr. Geo. E.	Sr Parkgate road
Orton, Mr. R. O., J.P.	Tattenhall, Chester
Orton, Mr. R. O., J.I.	
	Dermand street
*Pares, Mr. Bernard, B.A	r Raymond street
*Pares, Mr. Bernard, B.A Parkes, Mr. A	Dilage street low
Parkes Mr. A	Dilage street low
Parkes, Mr. A	Farndon Hall, Chester
Parkes, Mr. A. Parkes, Mrs. Parry, Mr. Gilbert	Farndon Hall, Chester 10 Upper Northgate street
Parkes, Mr. A. Parkes, Mrs. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road
Parkes, Mr. A. Parkes, Mrs. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Parry, Mr. Morris	", ", ", ", ", ", ", ", ", ", ", ", ", "
Parkes, Mr. A. Parkes, Mrs. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Parry, Mr. Morris	", ", ", ", ", ", ", ", ", ", ", ", ", "
Parkes, Mr. A. Parkes, Mrs. Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Pavne. Miss	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Palyllegen, Mr. J.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Palyllegen, Mr. J.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Phillipson, Mr. J.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Phillipson, Mr. J.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Phillipson, Mr. J.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road
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Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. H. G. Podmore, Miss Porter, Mrs Potts, Miss A. M.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road 3 Eastern pathway, Queen's park Crowthorne, Childer Thornton, Chester Heron Bridge
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert *Parry, Mr. Gilbert *Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. H. G. Podmore, Miss Porter, Mrs. Potts, Miss A. M. Potts, Miss A. M.	Farndon H'all, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road 3 Eastern pathway, Queen's park Crowthorne, Childer Thornton, Chester Heron Bridge Glanrafon, Mold
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. H. G. Podmore, Miss Porter, Mrs Potts, Miss A. M. Potts, Miss C. L. Potts, Capt. H. J., J.P.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road 3 Eastern pathway, Queen's park Crowthorne, Childer Thornton, Chester Heron Bridge Glanrafon, Mold Fasterate row
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. H. G. Podmore, Miss Porter, Mrs Potts, Miss A. M. Potts, Miss C. L. Potts, Capt. H. J., J.P.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road 3 Eastern pathway, Queen's park Crowthorne, Childer Thornton, Chester Heron Bridge Glanrafon, Mold Fasterate row
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. H. G. Podmore, Miss Porter, Mrs. Potts, Miss C. L. Potts, Miss C. L. Potts, Capt. H. J., J.P. Powell, Mr. E. Powell, Mr. T. J.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road 3 Eastern pathway, Queen's park Crowthorne, Childer Thornton, Chester Heron Bridge Glanrafon, Mold Eastgate row 14 Newgate street 6 Abbey square
Parkes, Mr. A. Parkes, Mr. Gilbert Parry, Mr. Gilbert *Parry, Mr. T. S., M.B. Parry, Mr. Morris Partington, Mr. John T. Payne, Miss Payne, Miss A. Phillipson, Mr. J. Phillipson, Mr. H. G. Podmore, Miss Porter, Mrs. Potts, Miss A. M. Potts, Miss C. L. Potts, Capt. H. J., J.P. Powell, Mr. E. Powell, Mr. T. J. Powles, Mr. A. E.	Farndon Hall, Chester 10 Upper Northgate street 21 Victoria road Denbigh villas, Cheyney road 4 Abbey green 12 Liverpool road 3 Eastern pathway, Queen's park Crowthorne, Childer Thornton, Chester Heron Bridge Glanrafon, Mold Eastgate row 14 Newgate street 6 Abbey square Abbot's grange, Liverpool road
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*Price, Mr. Walmsley	. 26 Watergate row
Price, Miss	.53 Rutland terrace, Parkgate road .9 The Groves
Prichard, Mr. Geo	. 9 The Groves
Prichard, Miss	
Pve. Mr. Ias.	. Clovelly House, Eversley park
Pve. Mrs.	
*Pye, T. E	Gasworks Shrewshury
Lyc, 1. D	. Gastions, Ontotional
Rayner, Miss	Ach grove Wreyham road
Day Miss	a Fastam nothway Ougan's nark
Ray, Miss	3 Eastern pathway, Queen's park
Reade, Mr. Albert William	3 Eastern pathway, Queen's park
Reade, Mr. Walter	
Richardson, Mr. A.	.Bridge street row
Roberts, Miss	. Bank Cottage, Neston
Roberts, Miss M	.8 Nicholas street
Roberts, Dr. J	.8 Abbey square
Roberts, Mr. Hugh	Crypt Chambers
Roberts, Miss Tohnson	7 Lumley road, Liverpool road
Roberts, Miss	Richmond Bank, Boughton
Roberts Miss	Overleigh, Hough green
Roberts, Miss C. F	. 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0
Roberto Mr R C	Kingston House
Dogges Mr Tomas	The Cross
Rogers, Mr. James	Wetergete House
Rogers, Mr. Jno.	. watergate riouse
Rogers, Mr W	* 37, 7 7
Rogerson, Mr. G. H.	.4 Nicholas street
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Royle, Mr. T. R. P	Hough Green House
Royle, Mrs.	
Ryan, Mr. Thos.	.Castle Hill House, Flint
Sandbach, Mr. S. H., J.P	.Cherry Hill, Malpas
*Sandford, Mrs	. Queen's School
Sant, Mr. T	Frodsham
	Ourselle Deale France
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Scott, Mr. John	, 19 Chichester street , St. John's Rectory , White Friars House , 7 Abbey square
Scott, Mr. John	, 19 Chichester street , St. John's Rectory , White Friars House , 7 Abbey square
Scott, Mr. John Scott, Rev. S. Cooper, M.A Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E.	.19 Chichester street .St. John's Rectory .White Friars House .7 Abbey square .Hallwood, Ledsham
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Scott, Mr. John Scott, Rev. S. Cooper, M.A. Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E. *Shepheard, Mr. T., F.R.M.S.	. 10 Chichester street . St. John's Rectory . White Friars House . 7 Abbey square . Hallwood, Ledsham . Kingsley Lodge, Liverpool road
Scott, Mr. John Scott, Rev. S. Cooper, M.A. Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E. *Shepheard, Mr. T., F.R.M.S.	. 10 Chichester street . St. John's Rectory . White Friars House . 7 Abbey square . Hallwood, Ledsham . Kingsley Lodge, Liverpool road
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Scott, Mr. John Scott, Rev. S. Cooper, M.A. Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E. *Shepheard, Mr. T., F.R.M.S.	. 10 Chichester street . St. John's Rectory . White Friars House . 7 Abbey square . Hallwood, Ledsham . Kingsley Lodge, Liverpool road
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Scott, Mr. John. Scott, Rev. S. Cooper, M.A Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E. *Shepheard, Mr. T., F.R.M.S. Shepheard, Miss Shepheard, Miss Emma Shepheard, Miss F. Shepheard, Miss F. Shepheard, Miss Rose. *Shone, Mr. W. F.G.S.	. 19 Chichester street . St. John's Rectory . White Friars House . 7 Abbey square . Hallwood, Ledsham . Kingsley Lodge, Liverpool road . " " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " "
Scott, Mr. John. Scott, Rev. S. Cooper, M.A. Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E. *Shepheard, Mr. T., F.R.M.S. Shepheard, Miss Shepheard, Miss Emma Shepheard, Miss F. Shepheard, Miss Rose. *Shone, Mr. W., F.G.S. Shone, Mrs. Shrubsole, Mr. Alfred	. 19 Chichester street . St. John's Rectory . White Friars House . 7 Abbey square . Hallwood, L'edsham . Kingsley Lodge, Liverpool road . " " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " .
Scott, Mr. John Scott, Rev. S. Cooper, M.A. Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E. *Shepheard, Mr. T., F.R.M.S.	. 19 Chichester street . St. John's Rectory . White Friars House . 7 Abbey square . Hallwood, L'edsham . Kingsley Lodge, Liverpool road . " " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " .
Scott, Mr. John. Scott, Rev. S. Cooper, M.A. Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E. *Shepheard, Mr. T., F.R.M.S. Shepheard, Miss Shepheard, Miss Emma Shepheard, Miss F. Shone, Mr. W., F.G.S. Shone, Mr. W., F.G.S. Shufflebotham, Mr. John H.	. 19 Chichester street . St. John's Rectory . White Friars House . 7 Abbey square . Hallwood, L'edsham . Kingsley Lodge, Liverpool road
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Scott, Mr. John. Scott, Rev. S. Cooper, M.A. Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E. *Shepheard, Mr. T., F.R.M.S. Shepheard, Miss Emma Shepheard, Miss F. Shepheard, Miss F. Shepheard, Miss F. Shepheard, Miss F. Shone, Mr. W., F.G.S. Shone, Mr. W., F.G.S. Shone, Mr. W., F.G.S. Shufflebotham, Mr. John H. *Siddall, Mr. J. D. Siddall, Mrs. Siddall, Mrs. Siddall, Mrs.	. 19 Chichester street . St. John's Rectory . White Friars House . 7 Abbey square . Hallwood, Ledsham . Kingsley Lodge, Liverpool road . " " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " .
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Scott, Mr. John. Scott, Rev. S. Cooper, M.A. Segar, Mr. F., L.D.S.E. Sharpe, Mr. F. W. Sharpe, Mr. Alan Sharp, Mr. W. E. *Shepheard, Mr. T., F.R.M.S. Shepheard, Miss Emma Shepheard, Miss Emma Shepheard, Miss Rose *Shone, Mr. W., F.G.S. Shone, Mr. W., F.G.S. Shrubsole, Mr. Alfred Shufflebotham, Mr. John H. *Siddall, Mr. J. D. Siddall, Mrs. Siddall, Mrs. Siddall, Mrs. Siddall, Mrs. Siddall, Mrs. Siddall, Mrs. Sidwell, Mrs. Small, Mr. A. H.	. 19 Chichester street . St. John's Rectory . White Friars House . 7 Abbey square . Hallwood, L'edsham . Kingsley Lodge, Liverpool road . " " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " " . " .
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*** A New Edition of the Catalogue of Books in the Society's Library will shortly be published. The usual list of recent additions has been omitted from this Report.

THE LIBRARY

Is open to the Members, and Books may be obtained on the following days :-

MONDAYS	7	to	8	p.n
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SATURDAYS	2	22	4	11

Notice.—Copies of the Society's Proceedings (No. 1, price 6d., Nos. 2 and 3, price 2/6 each), may be obtained from Mr. John Mills, Eastgate Row; Mr. G. R. Griffith, Grosvenor Street; or the Curator, Grosvenor Museum.





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Society of Patural Science & Literature.

(Founded by Charles Kingsley, 1871.)

TWENTY-SECOND

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,

FOR THE YEAR 1892-93.



CHESTER:

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCXCIII



CHESTER SOCIETY

OF

NATURAL SCIENCE AND LITERATURE

(FOUNDED BY CHARLES KINGSLEY, 1871.)

TWENTY-SECOND

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS FOR 1892-93,

AND THE

LIST OF MEMBERS FOR 1893-94,

ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR COMPETITION, &c.

CHESTER:

PRINTED BY G. R. GRIFFITH, "THE CASTLE" PRINTING WORKS.

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RULES.

1.—That the Title of this Society be "The Chester Society of Natural Science and Literature," and that its object be the promotion of the study of Natural Science by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2.—That the Officers be a President, Six Vice-Presidents, Treasurer, Three

Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above-named Officers, who shall be Ex-Officio Members, and Six other Members of the Society—the President or a Vice-President the Chairman; and that the practical management of the Society be vested in a Committee, subject to the following Rules:—

4.—That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee previous to a General Meeting.

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5.—That the Subscription be 5/- per annum, payable in advance, and due

the 1st of May in each year; and any person, duly elected, may become a Life Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five.

7.—That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section, may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8.—That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year.

9.—That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10.—That the Committee shall meet monthly for the despatch of business; Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No Paper shall be read without the previous sanction of the Committee. Objects of scientific

interest may be exhibited at the Evening Meetings.

13.—That at the Annual General Meeting which will be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six Days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

Your Committee again bring before the Members of the Society their Annual Report. The work has now been carried on for twenty-two years, and we still have amongst us many who assisted at the founding and organizing of the Society and who continue to take an active interest in its prosperity. The past year has been one of steady progress. Another Section has been added to our list—"The Astronomical"—so we have in all eight Sections embracing the chief subjects which are included in the large field of Natural Science and Literature.

We have on our list six hundred and sixty Ordinary Members, twenty-four Honorary Members, and fifteen Corresponding Members. Ninety-nine new Members have joined the Society during the past year, and by death and removal we have lost thirteen.

It is with regret we record the death of Mr. T. Bennion Acton, one of the staunch supporters of our Society. Though he did not live in Chester, he was rarely absent from our Annual Conversaziones and Excursions. He was a most able Botanist, and made a special study of our Cryptogamic Plants; he also had a sound knowledge of Geology, gained by personal observation. His loss is a great one to the Society, and all who knew him personally will feel they have parted with a true friend, and one who, during a useful and busy life, did much to further the interests for which this Society exists.

HIS GRACE THE DUKE OF WESTMINSTER has during the past year occupied the position of President, and to his unfailing kindness and courtesy we are deeply indebted. His Grace has materially assisted the Society from its very commencement, and some of the finest specimens in the Museum come from the Eaton Estate, and were presented by him.

The Natural History Collection has been steadily growing under the fostering care of our admirable Curator, Mr. Newstead. Unfortunately, the limited space at our disposal is a hindrance to the Members fully realizing the work that has been done. It is to be hoped that the Management Committee of the Building will shortly see its way to give us a larger and more convenient room. The Curator's Report, which is certain to be interesting, will give detailed accounts of the actual work done and a list of the specimens received.

The Library has been re-catalogued and the Books placed in order. We possess many valuable Pamphlets, which have been arranged and bound. We have also received a valuable present from Mr. Ballard in "The Journal of Chemical Industry" from its commencement; this will be useful as a book of reference.

The Treasurer's Financial Statement shews a considerable balance against the Society. This has arisen partly from necessary expenditure in the Natural History Museum, by providing for the mounting and better display of the specimens; also in the Library, by having had a large number of books bound and providing additional shelving. The greater part of the expenditure under these headings is exceptional, and will not be likely to recur again. The more frequent sending of Notices to the Members during the past winter has also considerably increased the amounts for printing, postages, &c. On the other hand, it is gratifying to note that the amount received for Members' Subscriptions is a little larger than in any previous year since the foundation of the Society.

The Accounts of the Kingsley Memorial Fund will be placed before you by the Honorary Treasurer, Mr. E. J. BAILLIE.

The special work of the Society may be set forth under the following heads:—

Excursions
Field Meetings
General Meetings

SECTIONAL MEETINGS CONVERSAZIONE PRIZES The following Excursions were made during the past year:—

It will be seen that there were four Excursions during the season, all of which were well attended and the weather propitious; a piece of good fortune, as the summer of 1892 was chiefly remarkable for its changeableness.

EVENING RAMBLES.

1892.	
Tune 1st	Wild Marsh, Sealand.
,, 8th	Christleton Hall Gardens.
,, 2IS	t Delamere Forest.
,, 29t	h
July 18th	Eaton Avenue.
,, 27tl	h Waverton.
Aug. 4th	Hoole Hall Gardens.

The Evening Rambles have again been very popular, but were not continued through August and September as it was found during that period some of the most regular attendants were away from the City. The Evening Rambles have been made available for the general business of the Society, which requires that there shall be at least six meetings in the summer. It will be seen the Society went out eleven times in all.

We have always endeavoured to make our more distant Excursions as attractive as possible, but of late years, owing to so many day excursions being organized from the City, your Committee found it prudent to reduce their number. This may not occur another year.

The Annual Conversazione took place earlier than usual, viz., on the 12th of September, 1892. It was held in the Town Hall and was well attended, every Member being anxious to make it a success inasmuch as it was the twenty-first of a continuous series since the founding of the Society. We were

glad to welcome many old friends, though we regretted the absence of others, and especially that of MISS KINGSLEY, who wrote most kindly on the occasion regretting her inability to be present.

The Kingsley Memorial Medal was presented to Mr. OSMUND W. JEFFS for his local Geological work. The Members of the Society are deeply indebted to Mr. JEFFS for the aid he has always given them, both on Excursions and in reading Papers.

Beside the usual objects shown in the different rooms in the Town Hall, we have to thank the Rev. J. E. Vize and Mr. Siddall for giving special Lectures, which were not only beautifully illustrated, but proved very interesting.

The Kingsley Memorial Prize of £10 was awarded to Mr. W. E. Sharp for his Collection of Coleoptera, and other awards were made to Mr. J. Arkle, Mr. A. Newstead, and Mr. G. H. Evans. On the day following the Conversazione, all the Members of the Society received an invitation from Her Grace the Duchess of Westminster, to a Garden Party at Eaton, when they had the opportunity of seeing a splendid Collection of Exotic Insects displayed in the Library. The Collection consists of about two hundred drawers of the most gorgeous insects, which in colouring vie with the beauty and splendour of the tropical plants and flowers of their native habitat.

We desire to record the best thanks of our Society to the retiring President, HIS GRACE THE DUKE OF WESTMINSTER.

The following Papers have been read at the General Meetings:—

1892.

Oct. 27—"St. Mark's Cathedral, Venice", by J. Ernest Phythian, Esq., Manchester.

Nov. 24—"With the Camera in the Canary Islands", by J. H. T. ELLERBECK, Esq., Liverpool.

1893.

Jan. 17 "The Moon," by W. E. PLUMMER, Esq., M.A., F.R.A.S.

Feb. 23—"Sewage Treatment and Disposal", by Thomas Wardle, Esq., F.C.S., F.G.S., of Leek.

Mar. 30—"The Sun and his Family", by Professor Barrell, M.A., B.Sc., University College, Bristol.

Apr. 27—Annual Meeting, and "A trip through Algeria and Tunis", with views by CAPTAIN LAMB, and explanations by CAPTAIN COOPER, A.D.C.

These Meetings have been well attended, and the illustrations by Lantern Slides have greatly enhanced the value of the Lectures, as both the observant and reflective faculties are called into play.

The different Sections into which the Society is divided have met as follows:—

1892. PHOTOGRAPHIC SECTION.

Nov. 3—"A Photographic Survey of Chester and neighbourhood", by MR. J. H. SPENCER, Secretary.

Dec. 15—"The Chemistry of Modern Dry-plate Photography", by MR. C.A.
KOHN, Ph.D., B.Sc., and Lecturer on Chemistry at University
College, Liverpool.

1893.

Jan. 19—"Printing out Emulsion Paper"; "Printing, Toning, and Mounting", by Mr. J. H. Spencer, Secretary.

Feb. 16-Lantern Night-Slides by Members of the Section.

Mar. 16—Exhibition of Lantern Slides, illustrating the Photographic Survey of Chester and neighbourhood.

Apr. 17-Annual Meeting of the Members.

The Committee of this Section are extremely anxious to enlist the sympathy of the Members to do real and systematic work which cannot be done without co-operation. For a small fee the Members of the Section can obtain special privileges, viz., the use of the Dark Room at the Museum, and as it is now proposed to affiliate the Section to the Photographic Society of Great Britain, those who pay the extra 2/6 will gain, not only the advantage of exhibiting, but also admission to the Pall Mall Exhibition. The Parent Society will look to the new Members for help, whilst affording them material assistance. Particulars will be furnished to the Members of the Section by the Secretary.

1893. SECTION OF LITERATURE.

Feb. 5—"Rowland Egerton-Warburton and his Hunting Songs and Poems", by Mr. T. CANN HUGHES, B.A.

Mar. 6-"Shakspere on the Stage, or Shakspere in the Study?" by the REV. A. H. FISH, B.A., B.Sc., Secretary.

Apr. 10-"History and History Text-Books", by the Rev. J. M. New, M.A.

BOTANICAL SECTION.

Nov. 10-" The Lily and the Rose", by Mr. LEO H. GRINDON, Manchester.

Jan. 5-"A Holiday Ramble in Cornwall", by Mr. J. D. SIDDALL, Secretary.

Apr. 20—In place of the Sectional Meeting, a visit to Messrs. Dicksons'
Nurseries, under the leadership of MESSRS. BAILLIE and
MILN.

ZOOLOGICAL SECTION.

Nov. 17-"Notes and observations on additions to the Natural History

Museum during the past year", by Mr. R. NEWSTEAD, F.E.S,

Curator.

1893.

Jan. 12—Conversational Evening among the Members.

Mar. 9—" Some Notes on the Fauna of the Wirral Peninsula", by MR. W. E. SHARP.

GEOLOGICAL SECTION.

Dec. I—"Some local Notes upon Pre-Roman Inhabitants of the North-west of England and Wales", by Mr. W. Shone, F.G.S., Chairman.

1893.

Feb. 2—"A Holiday Ramble in the Bermese Oberland", by Mr. A. W. Lucas, F.G.S., Secretary.

Apr. 6-" Some Commercial Aspects of Geology, with special reference to Building Stones", by Mr. OSMUND W JEFFS.

1892. NATURAL PHILOSOPHY SECTION.

Dec. 8-"A Chat about Thermometers", by Mr. G. WATMOUGH WEBSTER, F.C.S., Chairman.

Feb. 9-" Disinfectants", by Mr. J. BAIRSTOW, F.C.S.

Apr. 13-Conversational Evening.

ASTRONOMICAL SECTION.

Dec. 19-" Mars and Jupiter--a Planetary Contrast", by Mr. F. W Long-BOTTOM.

Jan, 26—"The New Comet", by the Rev. J. C. MITCHELL, B.D., F.R.A.S., Chairman.

Feb. 20—"Some remarks on an experience with Refracting and Reflecting Telescopes", by DR. Dobie.

"Observations on the February Constellations", by the CHAIRMAN.

1893. ASTRONOMICAL SECTION—Continued.

Mar. 23-" Photography as an aid to Astronomical Observation", by Mr. R. C. JOHNSTONE, F.R.A.S.

"The March Constellations", by the Chairman.

Apr. 18—" What to see, and how to see it, with a three-inch Telescope", by the CHAIRMAN.

"The Planet Saturn", by MR. F. W. LONGBOTTOM.

MICROSCOPICAL SECTION.

1893.

Mar. 2.—"Notes on the Microscopical Examination of Chester Water", by Mr. J. D. SIDDALL, Secretary.

It will be seen from the foregoing list, that there have been twenty-six Sectional Meetings during the past winter. This could not have been arranged, if, as in previous years, we had been restricted to Thursday Evenings only. Both the Literature, Astronomical, and Photographic Sections, have taken other evenings in the week for their Meetings.

The attendance at some of the Sectional Meetings, during the past winter, has been very satisfactory; while others have fallen off, notably those which deal purely in Natural History.

The Astronomical Section is to be congratulated on the vigour with which it has commenced its work, and it will be seen from the names of those who have read Papers, that we have amongst us several new workers.

A pleasing feature of the Report is the continued prosperity of the Paxton Society. It is doing valuable practical work, and the mere fact that no less than five of its Members have been engaged by the Cheshire County Council as Lecturers, is sufficient proof of its usefulness.

Your Committee have met seventeen times during the past year, and as far as lay in their power, have endeavoured to promote the interests of the Society, and to arrange as far as possible for the convenience of the Members. In resigning their office at the end of the year, they hope that they leave the Society as vigorous as it has ever shown itself during the past twenty-two years.

HENRY STOLTERFOTH, M.A., M.D.,

Scientific Secretary.

APRIL 27TH, 1893.

CURATOR'S REPORT.

Your Curator has much pleasure in stating that during the past year there has been a decided increase in the additions to the Natural History department of the Society's Museum. Last year the total of the number of species was 289, and of specimens 739. The total for the present year shows an increase of 177 species, and 541 specimens.

The total abstract of the number of species and specimens is as follows:—

		• Species Presented or Acquired.	Species Purchased.	Total of Species.	Total of Specimens
Echinodermata, &c		3		3	. 3
Acari		I		1	10
Coleoptera (Beetles)		244		244	590
Orthoptera (Grasshoppers, &c.)		I		1	7
Hymenoptera (Bees, &c.)		18		18	54
Neuroptera (Dragon Flies, &c.)		13		13	77
Lepidoptera (Moths, &c.)		28		28	54
Coccidæ (Scale Insects)		2		2	7
Hemiptera (Plant Bugs, &c.)		86		86	308
Diptera (Two-winged Flies)		4		4	28
Conchology (Shells)		12		12	43
Pisces (Fish)		4		4	43
Aves (Birds)		31	3	34	48
Eggs		3	3		
Manualia (Animala)	• •		ī	3 5 8	13
Coology		4 8	1	ğ	12
Micaellanoous	• •		• •		10
Miscenaneous	• •			• •	10
TOTAL		462	4	466	1280

^{*} Includes Kingsley Memorial Collections.

The additions chiefly consist of Insects of the Orders Coleoptera, Neuroptera, and Hemiptera-Homoptera. But additions have also been made to several other Orders as will be seen on referring to the detailed list. Three additional Life-Histories of Injurious Insects have been prepared, and several are being worked out.

By kind permission of the Committee many of the Life-Histories of the Farm and Fruit Pests have been used in connection with a series of Lectures on Economic Entomology given by your Curator, under the auspices of the Cheshire County Council, which, it is hoped, have proved most useful and instructive.

For the valuable help in the identification of difficult species your Curator is indebted to Mr. G. B. BUCKTON, F.R.S., Mr. E. SAUNDERS, F.E.S., and Mr. A. O. WALKER, F.L.S.

A few interesting and rare birds have been added, notably a fine male specimen of the Bittern (by purchase), and a Life-History Group of the Common Buzzard has been prepared, but materials are still wanting for its completion. Mr. S. WILSON ROBERTS has furnished us with a nice series of the Llanberis Char, (Salmo perisii, Gunthar), which are a valuable and interesting addition.

During the last five years a quantity of specimens have been preserved in Methylated Spirit, but for the want of suitable Glass Jars and Tubes these could not be exhibited. Quite recently, however, a stock of the latter was purchased, and the material has been placed in the Museum. Mr. A. O. Walker has very kindly presented six gallons of the old Methylated Spirit, which can only be obtained by special permission of the Government from the Methylators Without this it is impossible to make preparations for the preservation of fish and numerous other objects. The new form of Methylated Spirit is so prepared that, when mixed with water, it becomes opaque; which renders it useless for Museum work.

In the Geological Department, the collection of Prehistoric Implements have been rearranged and incorporated with those belonging to the Chester Archæological Society. To these your Curator has added some Coloured Plaster Casts of rare and fine examples, the originals of which are private property. It is intended to make this department as representative as possible, and it is hoped that those possessing such relics will kindly allow Casts to be taken from them.

Your Curator has much pleasure in stating that he has rearranged the whole of the Books forming the Society's Library, and provided a MS. Catalogue, of which it is hoped printed copies will shortly be issued.

In conclusion, your Curator thanks all those who by their gifts, or loan of books, have assisted in the development of their Museum, and asks, on behalf of his Committee, for their continued support.

LIST OF DONORS AND *ADDITIONS.

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Miss Wilson				:	Species.	Sp	ecimens.
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Mr. Cecil Smith	• •	• •	• •		I	-	I
Miss E. C. Tomlin	• •	• •		• •	3	_	9
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Master R. V. Douglas			• •		1		1
Mr. J. L. Denson					I		8
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^{*} Includes Kingsley Memorial Collections.

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R. NEWSTEAD, F.E.S.,

CURATOR.

27th April, 1893.

SPECIAL NOTICE.

At the recent Annual Meeting, the Hon. Treasurer's Statement showed that, owing to an unusually large expenditure (which was absolutely necessary) in the Natural History Museum and Library, there was a very considerable adverse balance.

This has been considerably reduced by a Donation of Twenty Guineas from the Kingsley Memorial Committee in recognition of the excellent service the Museum is doing in assisting the study of Natural Science; but there was still a balance remaining due to the Treasurer, at the time of the Annual Meeting, of over £30. That the excellent work of the Curator may not be curtailed, several Members of the Society have kindly sent donations amounting, at present, to £3 11s.

The Committee venture to express a hope that all the other Members of the Society will forward Donations to meet this deficit, which will be thankfully received and acknowledged by the Honorary Treasurer.

The Hon, Treasurer in account with the Chester Society of Natural Science and Literature, for the Year ending April 30th, 1893.

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, 1893-Examined and found correct, and that a balance of Twenty-seven Pounds Twelve Shillings and Ninepence Halfpenny is due to the Treasurer.

JOHN MILLS, HON. TREASURER.

C. R. ENOCK, C.A., BERESFORD ADAMS, HON. AUDITORS.

HON. AUDITOR.

25TH APRIL, 1893.

HON. TREASURER,

EDMUND J. BAILLIE,

W. VINCENT,

"KINGSLEY MEMORIAL" FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1893.

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Dr. To Balance	". Divi lends from Great Western Railway Proceeds of Sale of Book (Proceedings of C.S.N.S.)	" Bankers' Interest						To Balance brought down (in Bank)	

PHOTOGRAPHIC SECTION.

BALANCE SHEET TO APRIL 30th, 1893.

PAVMENTS		By Photographic Papers	Postages	0 I 2	., Affiliation Fee to Photographic Society of Great	Britain I I o	Balance in hand 1 13 I	63 12 7
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MAY 19TH, 1893 - Examined and found correct,

BERESFORD ADAMS.

J. H. SPENCER, HON. SECRETARY.

SECTION OF LITERATURE.

Owing to unavoidable postponements, only three Meetings have been held during the past winter.

1893.

Monday, February 6.—"Rowland Egerton-Warburton: his Hunting Songs, and Poems." T. CANN HUGHES, ESQ., B.A.

Monday, March 6,-"Shakspere on the Stage, or Shakspere in the Study?"

THE SECRETARY.

Monday, April 10.—"History and History Text-Books." Rev. J. M. New, M.A.

The Meetings, though few, have been very fairly attended.

ARTHUR H. FISH,

Hon. Secretary.

APRIL 27TH, 1893.



KINGSLEY MEMORIAL MEDAL,

ESTALISHED 1877,

"For having contributed materially to the promotion and advancement of some branch or department of Natural Science."—Vide Trust Deed.

1877-MRS. CHAS. KINGSLEY (In Memoriam.)

1878-JOHN PRICE, M.A.

1879-SIR PHILIP DE MALPAS GREV-EGERTON, BART, F.R.S.

1880-PROF. T. MCKENNY HUGHES, F.R.S.

1881-D. MACKINTOSH, F.G.S.

1882-ISAAC BYERLEY, M.R.C.S., F.L.S.

1883-GEORGE W. SHRUBSOLE, F.G.S.

1884-ALFRED OSTEN WALKER, F.L.S.

1885-John Davies Siddall.

1886-HENRY STOLTERFOTH, M.A., M.D.

1887-WILLIAM SHONE, F.G.S.

1888—THOMAS SHEPHEARD, F.R.M.S.

1889—Thos. Ruddy.

1890-REV. CHAS. WOLLEY-DOD, M.A.

1891-ROBERT NEWSTEAD, F.E.S.

1892-OSMUND W. JEFFS.

KINGSLEY MEMORIAL PRIZES,

ESTABLISHED 1877,

"For the reward, encouragement, and the advancement of the pursuit and study of Natural Science." - Vide Trust Deed.

1878 HELEN SMITH £5	Herbarium of Flowering Plants.
1879—George Shrubsole 5	Carboniferous Fossils.
1881—E. HOPKINS 5	Cryptogamous Plants.
1882—George Shrubsole 10	Corals of the Mountain Limestone.
1886-ROBERT NEWSTEAD IC	Hymenoptera.
1887—JOHN LYON DENSON	Notes of Observations illustrating the Natural Science of the Society's District.
	Coleoptera.
1889 EDITH C. TOMLIN	Diptera and Hymenoptera (Tere- brantia), &c. Coleoptera.

1890—ALFRED J. NIXON ... 10 Land and Fresh-Water Shells. 1892—W. E. SHARP 10 Coleoptera.

KINGSLEY MEMORIAL PRIZES.

Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition, and which have already been advertised in the local newspapers:—

1893.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above Prize, the Committee have decided that, in order to encourage scientific research, they will make Grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

* All Collections must be made in Cheshire or North Wales, or the Seas adjoining thereto, by the persons competing.

The Collections, Essays, or Notes of Observations, may be sent in to either of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

Intending Competitors can obtain all particulars, and the conditions under which the Prizes are offered, from either of the General Secretaries; and all Collections, &c., must be sent in to either of them on or before the last September in each year.

SOCIETIES ASSOCIATED,

WITH WHICH THE SOCIETY EXCHANGES PUBLICATIONS.

Academia Nacional de Ciencias de la Republica, Argentina, Cordoba.

Barrow Naturalists' Field Club.

Brighton and Sussex Natural History Society.

Bristol Naturalists' Society.

British Association (Corresponding Society's Committee.)

(Natural History), Cromwell Road, British Museum London, S.W.

Burnley Literary and Scientific Club.

Cardiff Naturalists' Society.

Cassel Society of Natural Science.

Dudley and Midland Geological and Scientific Society and Field Club.

Epping Forest and County of Essex Naturalists' Field Club.

Glasgow Natural History Society.

Hertfordshire Natural History Society and Field Club.

Huddersfield Naturalists' Society.

La Société d'Histoire Naturelle de St. Wladimir á Kiew, Russie. Leeds Naturalists' Club.

Liverpool Geological Society. Liverpool Geological Association.

Liverpool Literary and Philosophical Society.

Liverpool Microscopical Society. Liverpool Naturalists' Field Club.

Liverpool Science Students' Association.

Manchester Field Naturalists' Society.

Manchester Geological Society. Manchester Microscopical Society.

Menai Society of Natural Science.

Northampton Natural History and Field Club.

North Staffordshire Naturalists' Field Club and Archæological Society.

Nottingham Naturalists' Society. Postal Microscopical Society.

Quekett Microscopical Society. Rochdale Field Naturalists' Society.

Smithsonian Institution, Washington, D.C.

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To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary, according to Rule 8.

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Griffiths, Mrs. Griffiths, Mr. T. W. Griffiths, Mss. Griffiths, Mr. John *Griffiths, Mr. John *Griffiths, Rev. T. Turner, M.A. Gunton Miss *Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine Hall, Miss Josephine Hall, Mss. Hall, Mrs. Hankey, Mrs. C. Hankey, Mr. Lee Hankey, Mr. Lee Hankey, Mr. J. E. Harnaman, Mr. J. M. Harrison, Miss	5 Hough green 42 Watergate street """ Rimmersfield Old Bank House """ Government House """ 9 Abbey street 16 White Friars Rock Mount, Liverpool road The Blue Coat School, The Northgate St. John's Schools, Alvanley 13 Chichester street Highfield, Curzon park Ashville, Helsby 31 Parkgate road Green Bank, Eaton road 19 Pathway, Oueen's park

Henshaw, Mr. T. A	. The Hollies, Liverpool road
Henshaw, Mr. T. A	. ,,
Henshaw, Miss Edith E	. 11 11
Henshaw, Miss Florence M	
Heppel, Miss	.8 Hough Green
Heppel, Miss M. E	
Herne, Col	. Delamere House, Liverpool read
Hewitt, Mr. David L	Abbey House, Northgate street
Hickman, Mr. F. F	. 8 Northgate street
Hickman, Miss	. 17 The Groves
Hicks, Capt. E. C	. 23 Chichester street
Higgins, Miss Eva	The Manor Overleigh
Higgins, Miss Millie	, and allowed of the same of t
Higgins, Miss Millie	St. Martin's-in-the-fields
Hignett, Mrs.	14 Hough green
Hignett, Mr. A. H.	.14 110484 81004
Hignett, Mrs. T. H.	18 Hough green
Hincks Mr H T	61 Northesta street
Hincks, Mr. H. T	Alayandra villa Tivarnaal road
Hobday, Mr. J Hobday, Mr E	. Alexandra vina, Liverpoor road
Hobday Mr Too	The Graves
Hobday, Mr. Jas. *Hodges, Mr. W.	. 22 The Groves
Hodges Mr. T. D	.31 Hough green
Hodges, Mr. T. R.	• 33 33
Hodges, Miss A. G.	*
Hodkinson, Mr. E. *Holland, Mr. R., M.R.A.C	.35 Pepper street
*Holland, Mr. R., M.R.A.C	Mill Bank House, Frodsham
Holland, Miss A. E	.2 Eversley park
Holland, Miss S. L	* 21 . 22
Holme, Rev. Canon, M.A	.Great Budworth, Northwich
Holmes, Mr. J. G.	Belmont, Curzon park
Holmes, Mr. Melville Hoole, Rev. W. Spooner, M.A.	.3 Bold square
Hoole, Rev. W. Spooner, M.A.	.Thornton Rectory, near Chester
Hope, Mr. J. G.	Sealand view, Canal street
Hone, Miss M. P.	
Hopkins, Mrs. Hopkins, Mr. T., M.B. Hopley, Mr. J. C.	.32 Queen street
Hopkins, Mr. T., M.B.	.60 Watergate street
Hopley, Mr. J. C	. Chemist, Northgate street
norabin, Mr. 1	. 10 Newgate street
Horton, Mr. H. K	74 Brook street
Hostage, Mr. George B	. 28 Eaton road
Hostage, Mrs.	
Hostage, Miss	. 22 Eaton road
Howson, Rev. J. F., M.A.	Egerton House, Upper Northgate street
Howson, Miss	
Howson, Miss M	
Howson, Rev. G. L. M.A.	*
Hudson, Mrs. R. S.	The Vicarage, Crewe
	. The Vicarage, Crewe . Bache Hall Chester
Hughes, Mrs. McKenny	The Vicarage, Crewe Bache Hall, Chester 18 Hills toad, Cambridge
flughes, Mrs. McKenny	. 18 mills road, Campridge
*Hughes, Mr. Thos. Cann, B.A.	Town Hall, Manchester
*Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs.	Town Hall, Manchester .Uffington House, Dee hills
*Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs.	Town Hall, Manchester .Uffington House, Dee hills
*Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs	Town Hall, Manchester .Uffington House, Dee hills .16 Gt. "George st., Westminster, London
*Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs. Hughes, Mr. John Hughson, Mr. A.	Town Hall, Manchester .Uffington House, Dee hills ." .16 Gt. George st., Westminster, London .Crossloom villas, Mollington
*Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs. Hughes, Mr. John Hughson, Mr. A.	Town Hall, Manchester .Uffington House, Dee hills ." .16 Gt. George st., Westminster, London .Crossloom villas, Mollington
Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs. Hughes, Mr. John Hughson, Mr. A. Humberston, Miss. Humphreys, Mr. E. Noel	Town Hall, Manchester .Uffington House, Dee hills .16 Gt. "George st.", Westminster, London .Crossloom villas, Mollington .Newton Hall, Chester .8 Derby place, Hoole
*Hughes, Mr. Thos. Cann, B.A. *Hughes, His Honour Judge, Q.C. Hughes, Mrs. Hughes, Mr. John Hughson, Mr. A.	Town Hall, Manchester .Uffington House, Dee hills ."16 Gt. George st., Westminster, London .Crossloom villas, Mollington .Newton Hall, Chester .8 Derby place, Hoole

Jackson, Mr. Roger26 Hough green
Tackson, Miss
Jackson, Miss Thirza, Jacob, Rev. Joseph, M.A Whitewell Rectory, Whitchurch (Salop)
Jacob, Rev. Joseph, M.A Whitewell Rectory, Whitchurch (Salon)
Junicion, 100, 11. J Urane street
lavne, Mr. Ernest The Palace Descide
Jayne, Mr. Roland G
*Jebb, Mr. G. R., C.EFriryfield, Great Bar, Birmingham
Jennings, Mr. Constantine The Studio, Bridge street Jephcott, Mr. Charles
Jephcott, Mr. Charles13 Lorne street (North)
Johnson, Major Q Upper Northgate street
Johnson, Mrs II Bertram road Sefton park Timomool
Johnson, Mr
*Johnson, Mr. M., L.D.S.I York villas, Lorne street
Johnson, Mr. Thomas C West view, Garden lane
Jones, Miss Maggie I King's buildings
Iones, Miss The Northgate
Jones, Mrs. Edward 1 Paradise row
Joyce, MrsFerndale, Liverpoool road
Keeble, Rev. S. E Hawthorne villas, Flookersbrook
Kelnam, Mr. Augustus3 Eversley park, Liverpool road
Kelham, Mr. Augustus 3 Eversley park, Liverpool road Kelsall, Miss H. Abbot's court, Liverpool road
12cmp, Mil. George
Kenyon, Mr. G. A, M.B Flookersbrook
Kenyon, Mrs
King, Dr. H. W
King, Mrs.
Kinsey Mr T E Morris Wastering Wastering W.
Knowles Mr F R
Kingsley, Miss
22) metaley, Mr. E. M. Sheyd Boulghton loage
Lacy, Mrs Moore Holme, Neston
*Lamb, Capt Chester Castle
*Lamb, Capt. Chester Castle Lamont, Mr. A. 3 City Walls (West) Lamont, Miss , , , , , , , , , , , , , , , , , ,
Lamont, Mr. A., Junr.
Lamont, Miss
Lanceley, Mr. R. H Victoria road "
Lawley Lant the Hon A Fooleston IIII
Lawley, The Hon. Mrs.
Lawley, The Hon. Mrs. *Lawrence, Dr. A
Leighton, Mr. A. G. Eaton terrace, Louise street Lewis, Rev. J. S., M.A. Guilsfield Vicarage, Welshpool
Lewis, Rev. J. S., M.A Guilsfield Vicarage, Welshpool
Dipolium, Mil. I.
Littler, Miss
LIOVO, HIS HODOUR SIR Horotic Stanlow place
Lloyd, Lady "," Lloyd, Mrs E Abbot's mount, Liverpool road Lloyd, Miss M. E 13 Chichester street Lloyd, Miss C 66 Princess street
Lloyd, Mrs E Abbot's mount, Liverpool road
Lloyd, Miss M. E
Lloyd, Miss C
Lloyd, Miss C
Lockwood, Mrs. 7 Queen's park Lomax, Mr. F. T. 12 Bold terrace
Long Mes.
Long, Mrs Lumley road

*Longbottom, Mr. F. W14 Eaton road
Longbottom, Mrs, ,, ,, Lowe, Mr. G. B25 Hough green
Lowe, Mr. G. B25 Hough green
Lowe, Miss C. H, ", ", *Lowe, Mr. W. F., A.R.S.M., \ 9 Hough green
F.I.C., F.C.S.
1 .1.0., 1 .0.0.
Lowe, Mr. Jas. F., B.ADee banks
Lowe, Mrs ,, ,,
*Lucas, Mr. A. W., F.G.S Victoria pathway, Queen's park
Lund, Mrs
Luxmoore, Mr. E. B., J.P., F.G.S., Bryn-Asaph, St. Asaph
Lowe, Mrs
*Macdonald, Mr. G. E Abbey square
Manley, Mr. HAston, Nantwich
*Manning, Mr. J. B The Governor's House, H.M. Prison,
Pentonville, London
Manning, Miss Edith18 Upper Northgate street
Mann, Mr. A, M.BNewgate street
Mannington, Mr. Herbert T Flint
Marchant, Mr. W. H Whitefriars house Marsden, Miss
Macon Mr. E. R. 2 Lorne street (North)
Massie, Admiral
Mawdsley, Miss M. M 8 Eaton road
Massie, Admiral Stanley place Mawdsley, Miss M. M 8 Eaton road Mawdsley, Miss J. G ,
Mawdsley, Mr. W. H, ,, ,, McAllum, Mr. S. G., M.B. C.M The Asylum, Chester
McAllum, Mr. S. G., M.B. C.M. The Asylum, Chester
McEwen, Mrs
Meakin, MrsRichmond bank, Boughton
*Mills, Mr. John4 Eastgate row
Mills, Mrs
Mills, Mrs
Miln, Mrs
Milne, Mr
Minshull, Mr. EThe Northgate
Minshull, Miss, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,
Mitchell, Mrs.
Montgomery, Rev. J. K Abbot's villas, Liverpool road
Mitchell, Mrs
Moreton, Mr. J. E., F. K.C.S Taivin
Moreton, Mrs,
Morgan, Rev. J. B 2 Exton park *Morris, The Rev. Canon, D.D Eaton, Chester
Morris Miss Margaret 12 Stanley place
Morris, Miss Margaret 13 Stanley place Morris, Mr. R. W
Mossford, Mr. John
Musgrave, Mrs45 White triars
Musgrave, Miss Constance ,, ,,
*Newstead, Mr. R., F.E.S The Grosvenor Museum
Nicholls, Mr. W. A. M Eaton road, Chester
Nicholls, Mr. G. F12 Chichester street Nicholson, Mr. J. MLittle Sutton, Chester
Noyes, Mr. H. J

*Okell Mr E W
*Okell, Mr. E. W22 Northgate street
Okell, Miss A
Oldheld, Mrs
Oldfield, Miss Bryn Clwyd, St. Asaph Oldmeadow, Mr. Geo. E
Oldmeadow, Mr. Geo. E. 65 Parkgate road
Orton, Mr. R. O., J.P Tattenhall, Chester
Owen, Mr. Hugh I
Owen, Mr. Hugh LAshton House, New Crane street
Parkes, Mr. A
Farry, Mr. T. S., M.B10 Upper Northgate street
*Parry, Mr. T. S., M.B. 10 Upper Northgate street Parry, Mr. Morris 21 Victoria road Partington, Mr. John T. Dentitchial
Payne, Miss
Payne, Miss A
Phillips, Mr. C. B.
Phillipson, Mr T
Phillipson, Mr. J
Pitchford Mr Frage
Plim Miss
2 Hactern nothern
Porter, Mrs
Potts, Miss A. M
Powell, Mr. E. Eastgate row Powell, Mr. T. J. 14 Newgate street Preston, Mr. F. M. Abbot's grange, Liverpool road *Price, Mr. Walmsley 26 Watergrave
Powell, Mr. T. J.
Preston, Mr. F. M.
*Price. Mr. Walmsley
Price Miss
Prichard Mr. Goo
Prichard, Mr. Geo 9 The Groves
*Price, Mr. Walmsley
Prichard, Mr. Geo
Pritchard, Mr. W
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Pritchard, Mr. W. 17 Watergate street row Pye, Mr. Jas. Clovelly House, Eversley park Pye, Mrs. "" Pye, Mr. Fred "" ""
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Pritchard, Mr. W
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Pritchard, Mr. W. 17 Watergate street row Pye, Mr. Jas. Clovelly House, Eversley park Pye, Mrs. Pye, Mrs. Clovelly House, Eversley park Pye, Mr. Fred """ Pye, Mr. Fred """ Pye, Mr. T. E. Gasworks, Shrewsbury " Raingill, Mrs. Windsor Lodge, Mickle Trafford Rayner, Miss Ash grove, Wrexham road Ray, Miss Ash grove, Wrexham road Ray, Miss House Street Pyers Park Reade, Mr. Albert William II Lorne street Reade, Mr. Walter Richardson, Mr. A. Bridge street row Roberts, Miss Bank Cottage, Neston Roberts, Miss M. 8 Nicholas street Roberts, Mr. Hugh Crypt Chambers Roberts, Mr. Hugh Crypt Chambers Roberts, Miss Johnson 7 Lumley road, Liverpool road Roberts Mise
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Pritchard, Mr. W. 17 Watergate street row Pye, Mr. Jas. Clovelly House, Eversley park Pye, Mrs. 25. Clovelly House, Eversley park Pye, Mr. Fred 37. 37. 37. 37. 37. 37. 37. 37. 37. 37.
Pritchard, Mr. W. 17 Watergate street row Pye, Mr. Jas. Clovelly House, Eversley park Pye, Mrs. 29, Mrs. Clovelly House, Eversley park Pye, Mrs. 20, Mrs. 20
Pritchard, Mr. W. 17 Watergate street row Pye, Mr. Jas. Clovelly House, Eversley park Pye, Mr. Jas. Clovelly House, Eversley park Pye, Mrs. 2009. Clovelly House, Eversley park Pye, Mr. Fred 2009. Clovelly House, Eversley park Pye, Mr. Walter Rade, Mr. Walter 11 Lorne street row Roberts, Miss Bank Cottage, Neston Roberts, Miss Bank Cottage, Neston Roberts, Mr. Hugh Crypt Chambers Roberts, Mr. Hugh Crypt Chambers Roberts, Miss Johnson 7 Lumley road, Liverpool road Roberts, Miss New Pye, Mr. Hugh Coverleigh, Hough green Roberts, Mr. B. C., J.P. Kingston House Roberts, Mr. R. H. 7 St. Anne street Rogers, Mr. James The Cross
Pritchard, Mr. W. 17 Watergate street row Pye, Mr. Jas. Clovelly House, Eversley park Pye, Mrs. 25. Clovelly House, Eversley park Pye, Mr. Fred 37. 37. 37. 37. 37. 37. 37. 37. 37. 37.

4 Nicholas street

Rogerson, Mr. G. H	.4 Nicholas street
Royle Mr. T. R. P.	Hough Green House
Royle, Mrs	22 22
Ryan, Mr. Thos.	Castle Hill House, Flint
24,444, 2424	
C 11 -11 34 C TI TD	Cherry Hill Malnas
Sandbach, Mr. S. H., J.P	Ougan's School
*Sandford, Mrs.	Fredsham
Sant, Mr. T. Schröder, Mr. W. G.	Frousham
Schröder, Mr. W. G	Oueen's Fark Farm
Soott Rev S Looper M A	St. Tohn S Tection
*Sharp Mr. W. E	The Woodiands, Leasnam
Sharpe, Mr. F. W	Abbey square
Sharpe, Mr. Alan	Kingsley Lödge, Liverpool road
*Shepheard, Mr. T., F.R.M.S	Kingsley Lodge, Liverpool road
Charlaged Mrs	
Shepheard, Miss	* * * * * * * * * * * * * * * * * * * *
Shepheard, Miss Emma	4.4 22 22
Shepheard, Miss. Shepheard, Miss Emma Shepheard, Miss F. Shepheard, Miss F. Shepheard, Mr. W. F. I.	11
Shepheard, Miss Rose	5.1 22 22
Shepheard Mr. W. F. I.	National Provincial Bank, Wrexham I Allington terrace, Hoole road
Shepheard Mr. I. D.	National Provincial Bank, Wrexham
Shaphaard Mr I C B	r Allington terrace, Hoole road
*Shone, Mr. W., F.G.S	Unton park
Chang Mag	· · · · · · · · · · · · · · · · · · ·
Shone, Mrs Tupr	
Shone, Mr. Wm., Junr Shrubsole, Mr. Alfred	Town Hall square
Shufflebotham, Mr. John H	Milleross House, Taunton
Shumebotham, Mr. John II	To Faton road
*Siddall, Mr. J. D.	19 Eaton Toau
Siddall, Mrs.	
Siddall, Miss Annie	» • •
Siddall Miss G. M	Christ Church Schools, Black Diamond
Simms, Mr. A. J	atroct
	street
Sitwell, Mrs	Z Eaton road
Small Mr A. H.	THE LEAGHOINS
Small, Mr. Jas. P	Disease Doint Charter
Smith Mr T	Diacon I onit, Chester
Smith Mrs S	IO Micholas Street
Smith, Miss H.	3 Chichester street
Canith Mr John	Market Square
Smith, Mr. E. Heber, A.N.C.S	554 Cambrian Orescent
Smith, Mrs. Heber	Barrowmore Hall, near Chester
Smyth, Miss Lyle	Barrowmore Hall, near Chestel
*Spencer, Mr. J. H.	36 Bridge street Norfolk Lodge, London road, Reigate, Surrey
Spooner, Miss	Norfolk Lodge, London road, Reigate, Surrey
Spinks Mr. Kopt. C	a a go St. Zinne Street
Stevenson, Mr. A.	South view, Christicton road
Stewart, Mrs.	13 Stanley place
Stewart, Mrs	24 Bouverie street
*Stolterfoth, Dr. H., M.A., J.P.	I Grey friars
Stolterfoth, Mrs	. 4 + 4 27 27
Stolterfoth, Miss	

Storr, Mr. F
Storr, Miss
Storr, Miss Storrar, Miss Stor
*Strahan, Mr. Aubrey, M.A., F.G.S. H.M. Geological Survey, Museum, Jermyn street, London, S.W.
*Strahan, Mr. Aubrey, M.A., F.G.S.
(Jernyn street, London, S.W.
Sumner, Mrs. A. South view, Eaton road Sutcliffe, Miss Emily B 3 Crane street
Sutcliffe, Miss Emily B Crane street
Symons, Mr. J. W Mara villa, Dee banks
Taylor, Mr. Hy. Enfield, J.P., M. Inst. C.E Aston Hall, Hawarden
Taylor, Mr. J., F.R.C.S., J.P Haygarth House, Newgate street
Taylor Mr. T. C.
Taylor, Mr. J. G,
Taylor, Miss,
Taylor, Mr. John
Taylor, Mr. A. G Guilford street, Russell square, London, W.C.
Taylor, Mr. 1. Durnside 4 Flough green
Taylor, Mr. Hy., F.S.A 12 Curzon park
Taylor, Mrs. J. W 8 Ash grove
There is in the second of the
Thomas, Mr
Thomas, Dr. E. J. Haynes ,, ,,
Thomas, Miss
Thomas, Miss Constance ,,, ,,
Thomas Miss F. M
*Thomas, Mr. H Pleasant square, Craig-y-don, Llandudno
Thomas, Mr. Maurice27A Tarvin road
Thomas, Mr. Felix The Industrial Schools, Boughton
Thomas, Mr. Felx The industrial Schools, Boughton
Inomas, Mr. E. H, ,, ,,
Thomas, Mr. E. H
Thomas, Mr. W. C 58 Northgate street
Thompson, Mr. J. C. P Netherleigh
Thompson, Mr. Hy Brightholme, Curzon park
Thompson, Mrs,
Thomson, Miss I
Thomson, Miss 1 Cambrian view
Thornthwaite, Miss E. M @ Mrs. Hincks. Northgate street
Tilston, Miss King's buildings
Tinkler Mr (+ Af Nicholas street
Tomkinson, Mr. Jas., J.P., Willington Hall, Chester
Tomkinson, Mr. Jas., J.P. Willington Hall, Chester Tomlin, Mrs. Thorpe villa, Liverpool road
Tomlin Miss Lilian Ethel
Tomlin Mice Edith Clarabal
Township Miss Edith Children
Tomlin, Miss Lilian Ethel, , , , Tomlin, Miss Edith Clarabel, , , , , , , , , , , , , , , , , ,
Trafford, Mr. A 5 Watergate square Trelawny, Mr. H. D., J.P Shotwick park, Chester
Trelawny, Mr. H. D., J.P Shotwick park, Chester
Trelawny, The Hon. Mrs, ,, ,,
Trelawny, The Hon. Mrs, ,, ,, Tyrer, Mrs. Alfred
, ,
*Vincent, Mr. WBrook lodge, Brook lane
Vincent, Mrs, ,, ,,
Walrefield Mr. T. 3 Large street
Wakefield, Mr. T 3 Lorne street
Wakeheld, MISS A. E
Wakefield, Miss A. E
Walker, Mrs.
Walker, Miss 12 Liverpool road
*Ward, Mr. J. CBryn Estyn, Hough green
Ward, Miss 18 Eaton road
Way, Mr. N. A. E Stanley street

Weaver, Mr. W. MWes	tminster buildings
*Webster, Mr. G. Watmough, F.C.S	5 Eversley park, Liverpool road
Webster, Mrs	,, ,, ,,
Webster, Mr. Sirrell M	,, ,, ,,
Webster, Miss Amy B52 V	Vatergate street
Wells, Mr. E	eston, Chester
Wells, Mr. George J. J., F.I.C., F.C.S	S. 47 Parkgate road
Whalley, Mr. Fred. H., P.A. S.I 98 C	hurch street, Birkenhead
White, Miss E 5 Al	
Whiteley, Mr. F	by, Warrington
Wigg, Mr. Charles	le bank, Chester
Wilbraham, Miss E K	ng's buildings
Wilbraham, Miss F	lewgate street
Wilkinson, Mr. R49	ambrian view
Williams, Mr. J. E Wes	tminster buildings
Williams, Mr. John Abe	r Cottage, Saltney
Williams, Mr. A. C	ewgate street
Williams, Rev. J. R., M.A Pulf	ord Rectory, Wrexham
Williams, Miss Rut	and Cottage, Tarvin road
Williams, Miss31 H	lough green
Williams, Mr. R. J6 Ea	ton road
Williams, Miss Aldersey 96 V	Vateroate flags
Williams, Rev. John 4 Ch	evney road
Wiseman, Mr. C The	Poplars Dee Banks
Wiseman, Mr. Henry	
Wood, Mr. R. StewartEccl	eston. Chester
Wood, Miss28 Q	meen street
Wood, Mr. H	rosvenor street
Wood, Mrs. A @ N	liss Tilston I King's Buildings
Woodfin, Miss	orne street
*Wright, Mr. J. M., A.M.I.C.E Wat	er Engineer's Office. Dale street.
Trigint, Mil. J. Mil, Indiana. O. Dec. 11 an	Liverpool
Wright, Mr. A. J II	Bridge street row
Wright Mrs	21460 21100 1011
Wright, Mrs	College Chester
*Wynne, Mr. Geo. FPlas	Gwyn Minera Wreyham
Wynne, Mr. J. H	Carvin road
11 yillic, 141. J. 44	
Verden Mr Thos	t Anne street
Yeadon, Mr. Thos	ord Hall Wreeham
Young, Nev. Hammion, M.A Fun	ord Han, Wickham







*** As a New Edition of the Catalogue of Books in the Society's Library will shortly be published, the usual list of recent additions has been omitted from this Report.

THE LIBRARY

IS OPEN TO THE MEMBERS DAILY FROM 10 A.M TO 5 P.M.

Notice.—Copies of the Society's Proceedings (No. 1, price 6d., Nos. 2 and 3, price 2/6 each), may be obtained from Mr. John Mills, Eastgate Row; Mr. G. R. Griffith, Grosvenor Street; or the Curator, Grosvenor Museum.

Part No. 4 of the Society's Proceedings will shortly be published. Price 2/6. The Committee will be glad if Members who have not already done so will enter their names as Subscribers at once. CHESTER:
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CHESTER

Society of Natural Science & Literature.

(Founded by Charles Kingsley, 1871.)

TWENTY-THIRD

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,

FOR THE YEAR 1893-94.



CHESTER:

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCXCIV



CHESTER SOCIETY

OF

NATURAL SCIENCE AND LITERATURE

(FOUNDED BY CHARLES KINGSLEY, 1871.)

TWENTY-THIRD

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS FOR 1893-94,

AND THE

LIST OF MEMBERS FOR 1894-95,

ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR <u>COMPETITION</u>, &c.



CHESTER:

PRINTED BY G. R. GRIFFITH, "THE CASTLE" PRINTING WORKS.

MDCCCXCIV.



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RULES.

1.—That the Title of this Society be "The Chester Society of Natural Science and Literature," and that its objects be the promotion of the study of Natural Science by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2.—That the Officers be a President, Six Vice-Presidents, Treasurer, Three

Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above named Officers, who shall be Ex-Officio Members, and Six other Members of the Society—the President or a Vice-President the Chairman; and that the practical management of the Society be vested in a Committee, subject to the following Rules:—

4—That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee previous to a General Meeting.

5.—That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life

Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five.

7.—That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section, may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8.—That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year.

That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10.—That the Committee shall meet monthly for the despatch of business: Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No paper shall be read without the previous sanction of the Committee. Objects of scientific interest may be exhibited at the Evening Meetings.

13.—That at the Annual General Meeting which will be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

+>0<+

In presenting the Twenty-third Annual Report the Committee is pleased to be able to congratulate the Members on the prosperity and success which have attended the Society's work during the past year. In membership, in financial position, in public favour, and in efficiency and usefulness, the Committee believe that the Society has made very decided progress.

We have on our list six hundred and twenty-nine Ordinary Members, twenty-three Honorary Members, and fifteen Corresponding Members.

During the past year we regret to have to record the death of two of our Honorary Members-The Rev. H. H. Higgins and PROF. TYNDALL. THE REV. H. H. HIGGINS was well known to many of our members. He established a most successful "Field Club" in Liverpool, and made the Museum in that city one that its citizens may justly be proud of. took a deep interest in our Society, and in its early days rendered us valuable assistance. In one of his lectures, entitled "Is Nature Cruel?" he sounded the key-note of his own character, which was one that could not fail to draw to him all those who really cared to look lovingly into the marvels of nature, and from thence to nature's God. The lives of such men make little show in this world, but leave an ever-widening influence for good, as their memory is cherished and respected. PROF. TYNDALL'S death was inexpressibly sad. Though he was not personally known to many of our Society, his loss was a national one, for his life's work had been given to the advancement of Science.

In reference to the Museum, it is gratifying to find that the additional building is nearing completion, and there is every prospect that the collections made by our Society will shortly be seen to far greater advantage, while the rooms devoted to Natural History specimens will ever prove a source of general interest, showing as it does the admirable work of our zealous Curator.

It is a matter of regret that there is a considerable deficit in the Building Fund Account, and the Committee would gratefully receive any contributions from the Members, who would thus help to relieve the Hon. Treasurer and his Committee from the great responsibility of debt.

Another number of the "Proceedings" of the Society has just been issued, which contains many valuable papers of scientific interest. It is hoped that the Members will show their appreciation of the publication by taking copies, and recommending the work to the notice of their friends.

The record of the work of the Society will appear under the following heads:—

Excursions Field Meetings General Meetings Conversazione Sectional Meetings

The following Excursions were made, which were all well attended: -

The Evening Field Meetings were as follows:-

May 25th. Lache Lane.
,, 31st. Waverton.
July 12th. Eaton Gardens.
,, 19th. Delamere Forest.
Aug. 8th. The Dale Gardens.
,, 17th. Ince.
,, 24th. Helsby Hills.

The Annual Conversazione took place on October 19th, in the Town Hall, under the Presidency of W. M. Doble, Esq., M.D.,

and by kind permission of the Mayor (Mr. ALDERMAN CHARLES BROWN.) As on many former occasions we can again congratulate our Members on the success of the Conversazione. The Kingsley Memorial Medal was presented by HER GRACE THE DUCHESS OF WESTMINSTER to Mr. E. J. BAILLIE, F.L.S., who has done so much in furthering the study of Botany and Horticulture in the neighbourhood of Chester. Besides the usual show of Microscopes, there was a room entirely devoted to Telescopes and Astronomical apparatus, which were of considerable interest, as showing some of the instruments now available for use in Chester.

The following General Meetings have been held during the past winter:—

1893.

Oct. 26—"The Physical Features of Sinai and Palestine," by Professor Hull, LL.D., F.R.S.

Nov. 30—"The Glacial Period and its Vegetation," by W. CARRUTHERS, ESQ., F.R.S.

Jan. 25-"British Trap-door Spiders," by FRED. ENOCK, ESQ., F.L.S.

Feb. 22-"Revelation in relation to Modern Research," by The Very Rev. The Dean of Chester, D.D.

Mar. 29-"Storms and Rain, and how they are foretold," by F. GASTER, ESQ., F.R. Met. Soc.

Apr. 26—Annual Meeting of the Society; and a Lecture on "Scavenging and Disposal of House Refuse," by EDWARD ROBINS, ESQ., F.S.I., A.M.I.C.E.

In addition to the General Meetings, we have had two Special Meetings, the proceeds of which were devoted to the Natural History Museum:—

1894.

Jan. 10-"The Scottish Alps," by W. LAMOND HOWIE, Esq., F.C.S.

Feb. 26-" Life in Tripoli," by George E. Thompson, Esq.

Both these Lectures were well illustrated by lantern slides, and the thanks of the Society are due to the gentlemen named for their valuable assistance.

The different Sections into which the Society is now divided, will, at the request of the Committee, present their own Reports of the work done during the past twelve months.

Under the direction and guidance of our President (Dr. Dobie) the Society has had a very prosperous year. The Meetings have in all cases been well attended, and this may in a great measure be due to the introduction of short series of connected Lectures, on certain special subjects.

Your Committee have met twelve times during the past year, and they trust that the work carried out, and the general arrangements have proved satisfactory to the Members.

HENRY STOLTERFOTH, M.A., M.D.,

Hon. Scientific Secretary.

APRIL 26TH, 1894.



CURATOR'S REPORT.

THE additions to the Natural History Museum are as follows:-

		Species	Species	Total of	Total of
•		Presented,	Purchased.	Species.	Specimens.
					8
Botany		700		700	700
Coleoptera (Beetles)		45		45	115
Orthoptera (Grasshoppers, &c.)		3	, ,	3	3
Neuroptera (Dragon Flies)		10		10	37
Hymenoptera (Bees, &c.)	•	12	••	12	21
I shidaktowa (Matha)		54	••		149
Hamahtana (Saala Inconta)	•	0 1	**	54	18
Hamistana (Plant Ruge)	• •	13		13	2
Distance (Two winged Flice)	* *		••		18
Constagge (Shrimne Sta)		4	••	4	
Mollusca (Shells)		25	••	25	50
Aracnida (Spiders)		40	••	40	98
		7	••	7	9
Pisces (Fish)		2	••	2	5
Aves (Birds)	• •	91	5	96	198
Nests and Eggs		6		6	23
Mammalia (Animals)		10	I	11	II
Reptiles		2		2	5
Galls and Gall Insects		17		17	70
Geology		4		4	4
Miscellaneous		••		••	29
TOTAL		1,046	6	1,052	1,565

This makes the grand total of nearly 11,000 specimens added to the Society's Collection during the seven years I have held my present position as Curator. Compared with the larger Provincial Museums these figures may not appear very striking, but in a Museum like our own, which only accepts material of a strictly local character, we may justly consider our collections in a very flourishing condition, so far, at any rate, as the specimens are concerned. The want of exhibitive space, however, has long been felt, and it is hoped that before another year has passed, the collections will be safely housed in the new wing, where ample space will be provided for them. It is advisable I should call the attention of the Members to

the fact that not less than five new wall cases must be provided for the Birds, Mammals, &c.; also tables for the life-history groups of Birds. Fortunately there are plenty of *"table cases," and up to the present time we have been able to spare six of these for the Archæological Society's exhibits.

During the year special efforts have been made to make the collection of Birds as complete as possible, and we are under considerable obligations to Mr. R. J. Smith (Aldford) for his valued help in this direction, as also to Dr. W. H. Dobie and Mr. R. Newstead, Senr. Others have also assisted in procuring specimens, as will be seen on referring to the detailed list.

The preservation of some 200 birds has been no light task, and it has practically prevented me from adding specimens to the Entomological Collections. Maps, showing the whole distribution of each species, are being prepared by Mr. A. O. Walker and myself. Several new life-history groups of Birds have been completed, and others are in preparation. I have made two collecting expeditions during the year, for the purpose of obtaining birds; the expenses connected therewith have been defrayed by Dr. W. H. Dobie and Mr. Thos. Shepheard. A Little Bittern (Ardetta minuta, Lin.) and a Black Tern (Hydrochelidon nigra, Lin.) have been purchased by subscription by several of the Members; these, together with a splendid specimen of the White-tailed Sea Eagle (Haliætus albicilla, Lin.), presented by His Grace the Duke of Westminster, K.G., are worthy of special attention.

The collection of Fishes has been removed from the Natural History Museum, and is stored in the basement, where it will have to remain until the new wing is completed, and new cases are provided.

The President (DR. DOBIE) has presented a set of models of *Foraminifera*, illustrating some of the various genera found in the Dee; these cannot now be displayed for want of space.

^{*} In all there are 59 of these cases.

There have been 144 additions to the Society's Library since February, 1893. The want of funds, however, has prevented the publication of the MS. Catalogue which has been prepared; but it is hoped it may be published in the course of the present year.

I beg most respectfully, on behalf of the Committee, to thank all those who have so kindly contributed to the collections, for the loans of books, and other valued assistance, and ask for their continued support.

LIST OF DONORS AND ADDITIONS.

		BOTAN	Y.				
Sir Richard Wilb	raham			5	Species.	Spe	ecimens.
			**.	••	900	-	900
The Curator	COLEO	PTERA	(Bee	etles.)			
Mr. H. B. Duttor	• • •	••	• •		17	_	47
Mr. T. R. Hodge		••		••	2	_	20
	s	••	• •		1	_	I
Mr. J. D. Siddall Mr. A. O. Walke	••	• •	• •		1	_	10
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Master Garnett			••	••	I	_	I
Mr. Shaw		••	• • •	••	I	_	I
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Mr. Edmand.	••	••	• •	• • .	5	-	10
Mr. R. J. Smith	••	• •	• •	• •	I	-	1
Mr. A. O. Walker		• •	• •	• •	I	_	I
Mil. 21. O. Walker	••	••	• •	,	I	-	I
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Mr. J. Arkle					1		
Mrs. Brock					2		I 2
Mrs. Brassey					ī		1
Mr. W. Bithell				• • • • • • • • • • • • • • • • • • • •	ī		-
The Curator				•••	2		I
Mr. John Newton					1		
Mr. R. J. Smith		••	••	••	í		I
Mr. J. C. Ward			•••		I		I
Mr. A. O. Walker		••	••	••	2	-	I
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		12					
LE	PIDOPT	rera (Moths,	&c.)			
Mr. J. Arkle					37	_	114
Master A. Pitcairn Ca				7.	1	_	I
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Mr. Clough					1	_	I
Mr. F. R. G. Duckwo	orth				Ţ	_	I
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Mr. A. O. Walker		• •	• •	• •	I	_	I
Mr. Welsby		• •		• •	I	_	I
Mr. Wynne	••	••	• •	• •	I	_	I
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The Curator					I		3
Mr. J. L. Denson					ī	-	I
Mr. A. T. Gillanders		••			3	_	3
Mr. T. R. Hodges		• •			2		6
Mr. A. O. Walker	• •	••	••	• • •	5	_	5
	HE	MIPTE	RA.				
Mr. T. R. Hodges		••		• •	I	_	2
DIP	TERA (Two-w	inged	Flies.	.)		
Mr. E. J. Baillie					2		2
The Curator					1	_	12
Mr. R. J. Smith					I		4
	CR	USTAC	EA.				
Mr. A. O. Walker					25		50
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•	CONCH	OLOGY	(Shell	s.)			
Mr. A. Nicholson					30		74
Mr. Charles Oldham					7		18
Mr. A. O. Walker					2	_	2
Mr. B. Tomlin		••			I		4
	AFACI	NIDA (S	Spiders	.)			
The Curator		`			I		8
Mr. Gardner					ī	_	3
Mr. Greening					2	_	6
Mr. A. O. Walker			••		2	_	2
	PIS	CES (F	ish.)				

Mr. W. Brown .. Mr. T. R. Hodges

AVES (Birds.)

Rev. J. F. Buckler					I	-	I
The Curator					15	_	97
Mr. A. Cookson				• •	I	-	I
Mr. Davis					I	_	I
Dr. H. Dobie and Mr. A	. O. Wa	lker			4		10
Dr. W. H. Dobie					3		4
Mr. J. L. Denson					I	_	X
Mr. J. P. Earwaker					2		2
Master H. E. B. Earwak	er				I		I
Mr. Garnett					I		I
Mr. Garland					I	—	1
Mr. Harris					1	_	I
Mr. T. H. Hignett					I		I
Mr. Hutchinson					I	_	I
Mr. E. Myddleton					3	_	3
Messrs. Newstead, Junr.	, Shephe	eard, and	Smith		4	_	7
Mr. R. Newstead, Senr.					12		15
Mr. Pownall					I		2
Master Wm. Shone					I		I
Mr. R. J. Smith					31	_	42
Mr. W. Lester Smith					I	_	I
Mr. A. O. Walker					1	_	I
Mr. Wells					I	_	I
His Grace The Duke of	Vactoria	ctor TZ I	G.		I		I
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Mr. C. F. Wynne	· ·				I	_	I
Mr. C. F. Wynne	••					-	
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Mr. C. F. Wynne N The Curator Dr. H. Dobie	 ESTS			••	I	_	1 15 3
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Mr. Thos. Shepheard ... Curator's expenses—collecting expedition to Aldford; glass jar and leather for covering stoppers.

Mr. R. J. Smith 5
Dr. Stolterfoth Photographs
Mr. A. O. Walker 1 — 1

R. NEWSTEAD, F.E.S.,

CURATOR.

April 26th, 1894.



SECTIONAL REPORTS.

BOTANICAL.

One Meeting only of the Section has taken place during the past Session. The subject chosen for consideration at this Meeting was "The *genus Acacia*, with special reference to the species sold in Chester Market."

Mr. J. D. Siddall, Chairman of the Section, contributed the Paper, which was admirably illustrated by a fine collection of living and herbarium specimens contributed by Mr. G. P. Miln, Secretary of the Section; and also by a series of dissections of the leaf and flower structures made by the Students attending Mr. Siddall's Botany Class The attendance of members was good, and all seemed much interested.

But although only this one Thursday Evening was available for a Meeting of the Botanical Section proper, the affiliated Paxton Society has held regular Saturday Evening Meetings throughout the Session, at which Papers, as follows, have been given to larger audiences than in any previous year:—

Jan. 6—"The importance in Nature of the lower forms of Animal and Vegetable Life," illustrated by Examples and Diagrams, by MR. J. D. SIDDALL.

,, 20-"Present aspects of Horticultural Education," by Mr. T. REDINGTON Feb. 3-" The Culture of Vegetables for Exhibition," by Mr. JOHN WYNNE, 17-" Form and Colour in Nature," by Mr. E. J. BAILLIE, F.L.S.

Mar. 3—"Horticulture—some of its aspects," by Mr. F. N. Barnes, Eaton.
"17—"Recent experiments in the formation of Mushroom Beds," by
Mr. JOHN TAYLOR.

Apr. 7-"Notes on Spring Bedding," by Mr. JOHN WEAVER.

" 21-Exhibition of Spring Flowers by Members.

The Fruit and Chrysanthemum Exhibition organised by the Paxton Society in the Town Hall last November, was a splendid success in every way. There is, therefore, no reason to think that the interests of this Section have suffered by the new arrangements necessitated by the two Serial Courses of Lectures in Geology and Astronomy. On the contrary, the success of these courses has attracted better audiences to all the Museum Meetings, Botanical and otherwise.

G. P. MILN,

GEOLOGICAL.

At the beginning of the Society the subject of Geology was one of the most prominent, but for the past year or two it has evoked but languid interest; and this is perhaps to be accounted for by the removal of many who were formerly Members of this Section, and from others having taken up more congenial pursuits. This was specially seen in the small attendance at the Sectional Meetings. It was, therefore, thought desirable to make a new departure this year; and, while retaining the usual reading of more advanced papers, as occasion required, to give a course of Elementary Lectures as devoid of technical terms as possible, to which the general public should be invited free of charge.

The response to this invitation was exceedingly gratifying to the Committee and the Officers of the Section, for large audiences were present on each evening, when the following Course of Lectures was given:—

- (I) "How the World was made, and what it is made of."
- (2) "The Age of the World, as shown by its Crust, and the Fossils it contains."
- (3) "How Slates, Sandstones, and Limestones have been formed."
- (4) "What Coal is, and how it was produced."
- (5) "The state of the interior of the World, as shown by Volcanoes, Geysets, Hot Springs, &c."
- (6) "The ways in which the Surface of the World has been changed."

It is hoped that by this course of Lectures an intelligent interest in the science of Geology will have been awakened, especially in the minds of the young people who attended, and that many may be induced to become members of the Society.

The Committee desire to give every possible facility to those who wish to continue the study, and trust that a new generation of Geologists will arise which will carry on the work which has been so well begun by their predecessors. They specially call attention to their collection of Fossils in the Museum, illustrative of the Geology of this district; to the Classes which will be formed provided a sufficient number of Students apply for instruction; and to the Sectional Meetings, at which interesting papers are read, such as that recently given by the Chairman on "Post-Glacial Man in Britain."

ALFRED W. LUCAS,

Secretary.

NATURAL PHILOSOPHY.

DURING the Session that has just closed, one Paper only was read in this Section, but this was of especial merit, being an account by Dr. P. Schidrowitz of the Synthesis and the Properties and Uses of Modern Drugs.

The compounds specially dwelt upon were the following: Antipyrin, Antifibrin, Phenacetin, Sulphonal, and Saccharin.

The Lecture was well illustrated both with numerous specimens and with experiments.

W. F. LOWE,

Secretary.

APRIL 26TH, 1894.

PHOTOGRAPHIC.

THE Photographic Section has held five Meetings during the Session:—

1893.

Nov. 16-"Yorkshire Scenery": A set of Lantern Slides by MEMBERS OF THE LEEDS PHOTOGRAPHIC SOCIETY.

Dec. 11—"Harmonising Harsh Negatives," with illustrated examples; A Paper by Mr. J. McIntosh.

1894.

Jan. 26—"Matt Print-Out Paper": A Demonstration by Mr. Howson, Britannia Works Co., Ilford.

Mar. 2-"Correct Exposure, and how to insure it": A Paper by MR. G. F. WYNNE.

April 2—"Annual Meeting of Members and Exhibition of Lantern Slides by Members of the Section.

STATEMENT OF ACCOUNT.

RECEIPTS.	PAYMENTS.
£ s. d. To Balance from 1892 I 13 I ,, Subscriptions I 5 o	By Photographic Papers 0 17 4 Balance 2 0 9
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J. H. SPENCER,

Secretary.

APRIL 26TH, 1804.

ZOOLOGICAL.

THERE has been only one Meeting (on Nov. 2nd, 1893), when the Curator, MR. R. NEWSTEAD, F.E.S., read a Paper on "Hornets, Bees, and Wasps." The Paper was illustrated by diagrams and specimens, and was much appreciated.

T. SHEPHEARD, F.R.M.S.,

APRIL 26TH, 1894

Secretary.

LITERATURE.

THERE has been only one Meeting (on January 11th), when the Secretary, Rev. A. H. Fish, read a Paper on "The Odyssey of Homer." The paper was illustrated by photographs of Greek Sculptures and Vase-paintings representing incidents of the poem, shown by the lantern.

A. H. FISH,

Secretary.

APRIL 26TH, 1894.

ASTRONOMICAL.

Two Conversational Meetings for workers were held on December 14th and January 19th respectively, when matters of passing interest were discussed.

At the Annual Conversazione held in the Town Hall on October 19th, 1893, one of the Committee Rooms was set apart for the exhibition of Telescopes, Astronomical Instruments, &c.

A Course of Free Popular Lectures on Astronomy was delivered on alternate Thursday Evenings during the latter part of the Session. These Lectures were beautifully illustrated by lantern views, drawings, and diagrams, and proved most interesting to Members of the Society and to the general public.

The series consisted of the following Lectures:-

Feb. 1—" The Telescope," by Mr. Albert Taylor, F.R.A.S. Sir Howard Grubb's Patent Telescope was shown and described.

" 15-" The Private History of the Sun," by Rev. J. C. MITCHELL, B D., F R.A.S.

Mar. I-"The Moon," by DR. DOBIE, J.P., F.R.A.S.

" 15—"Sunlit Worlds," by MR. F. W. LONGBOTTOM.

Apr. 5-"Stars and Star-clusters," by Mr. SAMUEL OKELL, F.R.A.S.

" 19 -"The Fixed Stars (The Constellations)": specially addressed to young people, by Mr. W. VINCENT.

In conclusion, we feel sure that everyone interested in the subject will be glad to learn, that arrangements are being made by the Committee to obtain SIR ROBERT BALL to deliver an Astronomical Lecture at the opening of the next Winter Session.

HERBERT DOBIE,

Secretary.

APRIL 26TH, 1891.



The Hon. Treasurer in account with the Chester Society of Natural Science and Literature, for the Year ending April 30th, 1894.

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BERESFORD ADAMS, Hon. AUDITORS. C. R. ENOCK,

JOHN MILLS, HON. TREASURER.

"KINGSLEY MEMORIAL" FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1894.

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EDMUND J. BAILLIE, HON. TREASURER,

HON, AUDITOR.

W. VINCENT,

18TH APRIL, 1894-Examined and found correct,

ITH APRIL, 1894.

PAST PRESIDENTS.

1871 to 1875-Rev. Charles Kingsley, Canon of Chester (Founder of the Society.)

1875 ,, 1891-PROF. T. MCKENNY HUGHES, F.R.S.

1891-2

ALFRED O. WALKER, ESQ., J.P., F.L S. HIS GRACE THE DUKE OF WESTMINSTER, K.G. 1892-3

W. M. DOBIE, ESQ., M.D., J.P., F.R.A.S. 1893-4

KINGSLEY MEMORIAL MEDAL,

ESTABLISHED 1877,

"For having contributed materially to the promotion and advancement of some branch or department of Natural Science." - Vide Trust Deed.

1877-Mrs. Chas. Kingsley (In Memoriam.)

1878-John Price, M.A.

1879-SIR PHILIP DE MALPAS GREV-EGERTON, BART, F.R.S.

1880-PROF T. McKenny Hughes, F.R.S.

- 1881-D. MACKINTOSH, F.G.S. 1882-ISAAC BYERLEY, M.R.C.S., F.L.S.
- 1883-George W. Shrubsole, F.G S. 1884-Alfred Osten Walker, F.L.S.
- 1885—John Davies Siddall. 1886—Henry Stolterfoth, M.A., M.D.
- 1887-WILLIAM SHONE, F.G.S.
- 1888-THOMAS SHEPHEARD, F.R. M.S.
- 1889—Thos. Ruddy.
- 1890-REV. CHAS. WOLLEY-DOD, M.A.
- 1891—ROBERT NEWSTEAD, F.E.S. 1892—OSMUND W. JEFFS.
- 1893-EDMUND J. BAILLIE, F.L.S.

KINGSLEY MEMORIAL PRIZES.

ESTABLISHED 1877,

"For the reward, encouragement, and the advancement of the pursuit and study of Natural Science."-Vide Trust Deed.

1878 { HELEN SMITH...... £5 } Herbarium of Flowering Plants. Carboniferous Fossils. 1879-GEORGE SHRUBSOLE .. Cryptogamous Plants. 1881—E. HOPKINS..... 1882-GEORGE SHRUBSOLE .. 10 Corals of the Mountain Limestone. 1886-ROBERT NEWSTEAD .. 10 Hymenoptera. Notes of Observations illustrating the 1887-JOHN LYON DENSON .. Natural Science of the Society's District. 1888 - LILIAN E. TOMLIN .. 5 Coleoptera. 5 | Diptera and Hymenoptera (Terebrantia). 1889 EDITH C. TOMLIN....
W. E. SHARP 5 | Coleoptera.

1890-ALFRED J. NIXON.... 10 Land and Fresh-Water Shells.

1892-W. E. SHARP..... 10 Coleoptera.

KINGSLEY MEMORIAL PRIZES.

Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition:—

1894.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above Prize, the Committee have decided that, in order to encourage scientific research, they will make Grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

, All Collections must be made in Cheshire or North Wales, or the Seas adjoining thereto, by the persons competing.

The Collections, Essays, or Notes of Observations, may be sent in to either of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.-The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

Intending Competitors can obtain all particulars, and the conditions under which the Prizes are offered, from either of the General Secretaries; and all Collections, &c., must be sent in to either of them on or before the 1st September in each year.

SOCIETIES ASSOCIATED,

WITH WHICH THE SOCIETY EXCHANGES PUBLICATIONS.

Academia Nacional de Ciencias de la Republica Argentina, Cordoba.

Barrow Naturalists' Field Club.

Brighton and Sussex Natural History Society.

Bristol Naturalists' Society.

British Association (Corresponding Society's Committee.)

British Museum (Natural History), Cromwell Road, London, S.W.

Burnley Literary and Scientific Club.

Cardiff Naturalists' Society.

Cassel Society of Natural Science.

Dudley and Midland Geological and Scientific Society and

Field Club.

Epping Forest and County of Essex Naturalists' Field Club.

Glasgow Natural History Society.

Hertfordshire Natural History Society and Field Club.

Huddersfield Naturalists' Society.

La Société d'Histoire Naturelle de St. Wladimir á Kiew, Russie.

Leeds Naturalists' Club.

Liverpool Geological Society.

Liverpool Geological Association.

Liverpool Literary and Philosophical Society.

Liverpool Microscopical Society. Liverpool Naturalists' Field Club.

Liverpool Science Students' Association.

Manchester Field Naturalists' Society.

Manchester Geological Society. Manchester Microscopical Society.

Menai Society of Natural Science.

Northampton Natural History and Field Club.

North Staffordshire Naturalists' Field Club and Archæological Society.

Norwich Science Gossip Club. Nottingham Naturalists' Society.

Patent Office Library, 25, Southampton Bridge, Chancery Lane, London, W.C.

Postal Microscopical Society. Quekett Microscopical Society.

Rochdale Field Naturalists' Society.

Smithsonian Institution, Washington, D.C.

United States Geological Survey.

Vatican Observatory, Rome (F. Francis Denza, Director.)

Vienna Natural History Museum. Wigan Literary and Scientific Society.

Yorkshire Naturalists' Union, Leeds.

HONORARY MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

Ball, Sir Robert S , F.R.S.	Observatory, Cambridge
Barrett, Chas. G., Esq., F.E.S.	39, Linden Grove, Nunhead, London.
, , , , , , , , , , , , , , , , , , , ,	S.E.
*Carruthers, W., Esq., F.R.S.	.The British Museum, South Ken-
, , , ,	sington, London, S. W.
*Dawkins, Prof. W. Boyd, F.R.S.	. Woodhurst, Wilmslow rd., Fallow-
, ,	field, Manchester
De Tabley, The Right Hon. Lord	.62, Elm Park road, Chelsea, London,
• ,	S. W.
*Grindon, Leo H., Esq	.20, Cecil Street, Greenheus, Manchester
*Hicks, H., Esq., F.R.S	.Hendon Grove, Hendon, London,
* **	N. W.
Hooker, Sir J. D., K.C.S.I., F.R.S.	. The Camp, Sunningdale, Ascot
*Hughes, Prof. T. McKenny, F.R.S	.Trinity College, Cambridge.
*Hull, Prof., F.R.S	.20, Arundel Gardens, London, W.
Huxley, Prof. T. H., F.R.S	. Hodeslea, Eastbournc
*Judd, Prof. J. W., F.R.S	Royal College of Science, South
	Kensington, London, S. W.
*Lubbock, Sir John, Bart., M.P., F.R.S	.Down, Farnborough, Kent
*Morton, G. H., Esq., F.G.S	.209, Edge Lane, Liverpool, E.
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	Durham
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To prevent a recurrence of a frequent misunderstanding. Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary, according to Rule 8.

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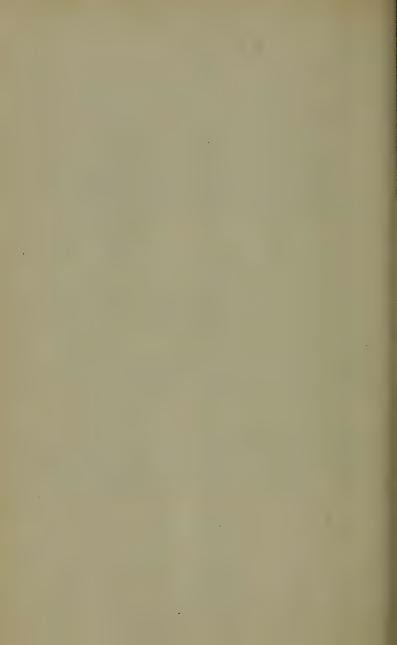
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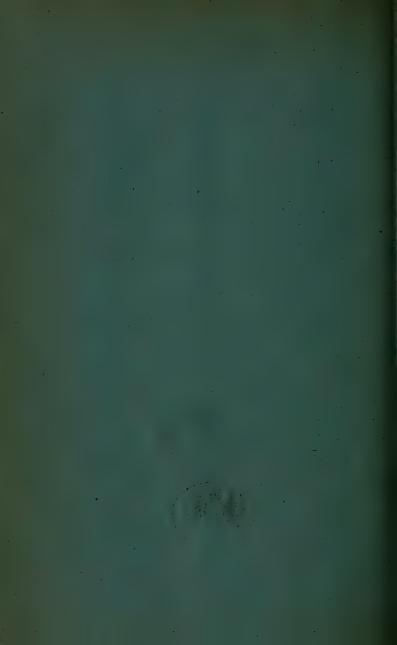
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CHAIRMAN -- DR. STOLTERFOTH 1, Grey Friars. SECRETARY-MR. J. D. SIDDALL 19, Eaton Road.

PHOTOGRAPHIC.

CHAIRMAN -DR. STOLTERFOTH I. Grey Friars.
SECRETARY-MR. J. H. SPENCER 36, Bridge Street.

LITERATURE.

CHAIRMAN -THE RIGHT REV. THE LORD BISHOP The Palace, Dee Side. Secretary - Rev. A. H. FISH, B.A., B.Sc. Arnold House.

ASTRONOMICAL.

CHAIRMAN —DR. W. M. DOBIE Northgate House.

SECRETARY—DR. HERBERT DOBIE II, St. John Street.

Don. Treasurer :

MR. JOHN MILLS, 4, Eastgate Row.

Ton. Secretaries :

MR. G. R. GRIFFITH, 30, Hough Green. | MR. G. P. MILN, 27, Chichester Street.

Don. Librarian :

MR. P. H. FLETCHER, Woodbrae, Curzon Park.

Committee :

THE ABOVE OFFICERS, Ex-Officio,

AND

Mr. E. J. BAILLIE, F.L.S. | Mr. A. E. GOODMAN. | Mr. F. W. LONGBOTTOM. Mr. J. LYON DENSON. | Dr. KING. | Mr. E. W. OKELL.

Bon. Huditors :

MR. BERESFORD ADAMS. MR. C. R. ENOCK.

Curator and Assistant=Librarian :

MR. R. NEWSTEAD, F.E.S., The Grosvenor Museum.

RULES.

1.—That the Title of this Society be "The Chester Society of Natural Science and Literature," and that its objects be the promotion of the study of Natural Science by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2. -That the Officers be a President, Six Vice-Presidents, Treasurer, Three

Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above-named Officers, who shall be Ex-officio Members, and Six other Members of the Society—the President or a Vice-President the Chairman; and that the practical management of the Society be vested in a Committee, subject to the following Rules:—

4.—That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent (in writing) to the Committee previous to a General Meeting.

5.—That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life

Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary

Members not to exceed Twenty-five.

7.—That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section, may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8.—That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of

the year.

 That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10.—That the Committee shall meet monthly for the despatch of business:

Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No paper shall be read without the previous sanction of the Committee. Objects of scientific

interest may be exhibited at the Evening Meetings.

13.—That at the Annual General Meeting which will be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

+>+<-

Your Committee have pleasure in presenting their Twenty-fourth Annual Report, and in doing so must again congratulate the Members on the successful and efficient work done by the Society.

During the year fifty new Members have been elected, whilst the Society has lost through deaths and resignations twenty-one Members, leaving a total of 696 on the books, including Honorary and Corresponding Members.

It is with regret that we have to announce the removal of Mr. T. Shepheard from the City. He is one of the oldest Members of our Society, and has been a constant and liberal friend during the past twenty-four years; his research and work as a microscopist have been of signal value to the Society, and the kind and willing aid given to all who applied to him has helped to train up many to the use of the instrument. We wish him heartily and sincerely improved health in his new home, and it will be a pleasure to look forward to seeing him from time to time amongst us.

During the past year we have published the Fourth Number of our "Proceedings," and the Committee desire especially to recommend it to our Members. It contains much that will be of permanent interest to all who wish to make themselves acquainted with the past and present condition of the *Flora* and *Fauna* of the district. As the Society confines itself strictly to matters relating to the locality, the publications appear at irregular intervals, but the Committee will be pleased to receive short notes from any Members who may be willing to contribute them, which will be one of the best means of securing and disseminating accurate information. As one of the results of our past endeavours in this direction, we are pleased to

be enabled to state that our Society has been placed upon the list of Corresponding Societies in connection with the British Association for the advancement of Science, on the ground that we "undertake local scientific investigations and publish notices of the results."

The Natural History Collection was removed into the new room provided for the Society on the completion of the Grosvenor Museum, and was opened to the public on the 2nd of February last. The new room has been furnished by special subscriptions from some of the Members, but there is still much to be done. The Curator has worked wonders with the means and material at hand, but given a band of enthusiastic collectors, he would be enabled to compass still more. A detailed Report as to the condition of the Society's Collections will be presented by Mr. Newstead.

The more immediate work of the Society is comprised under the heads Summer Excursions, Evening Rambles, General Lectures, and Sectional Meetings.

SUMMER EXCURSIONS.

1894.		
May 14th and	15th	Eaton Fête.
June 13th		Port Sunlight.
		The Gorge of the Alyn
Sent 5th		Warrington,

The Excursion to Bryntisilio was the annual one, and we were on that occasion joined by Members of the Chester and North Wales Archæological and Historic Society. During the early part of the season there were not so many Evening Rambles as in past years; many of our Members being much occupied in making preparations for the Eaton Fête.

EVENING RAMBLES.

189	94.	
Tune	20th	Waverton.
Tuly	4th	Eddisbury Hill.
		Eaton Gardens.
		Delamere Forest.

The Annual Conversazione took place on October 8th, in the Town Hall, under the Presidency of Dr. Dobie, who this year received the Kingsley Memorial Medal from the hands of THE COUNTESS GROSVENOR, "for having materially contributed to the promotion and advancement of Natural Science." Grants were made from the Kingsley Fund to Mr. Alfred Newstead and Mr. A. E. GOODMAN for their collections in Natural History. There was a good display of objects of interest in the various rooms; also the usual Natural History Specimens; and one room was devoted to instruments and objects connected with the science of Astronomy. Mr. Stivens' Collection of British and Foreign Birds was shown in the Assembly Room, and proved very attractive. The Microscopes in the Council Chamber were, as usual, well patronised. There were also good Photographic exhibits; and it may be added the Society still retains the interest of its Members, and from the number of visitors drawn to our Annual Conversazione, we may hope that in the future we shall secure some useful Members.

The following is a precis of the General Evening Meetings:—

1894.

Oct. 25th-"A Journey East of the Jordan," by GREY HILL, Eso.

Nov. 27th-"Krakatoa: The mighty Volcano," by SIR ROBERT BALL, F.R.S.

1895.

Jan. 24th—"An Art Lecture," by Hubert Herkomer, Esq., R.A., M.A., Slade Professor, Oxford.

Jan. 31st-"A Ramble in Holland," by R. Anderton Navlor, Esq., F.R.S. Lit.

Feb. 28th—"Life in the Insect World," by Mr. R. Newstead, F.E.S., Curator of the Grosvenor Museum.

Mar. 27th-"A Botanist's Rambles in Northern Spain," by Theo. Wardleworth, Esq.

Apr. 25th—"Annual Meeting; also a Paper on "The rare old City of Chester," by Mr. HARPER GAYTHORPE.

There have been seven General Meetings during the past Session. Owing to the extensive use of the lantern,

the Meetings have been well attended, as the illustrations add greatly to the attraction and interest of the Lectures. Two of the Meetings were held in the Music Hall, as our own Lecture Theatre did not offer sufficient accommodation to the large assemblage attracted by SIR ROBERT BALL and PROF. HERKOMER.

The various Sections into which the Society is divided have met regularly during the winter.

The Committee take this opportunity of thanking those Members and friends who have added to the interest of the Meetings by contributions of Papers and other communications of value, and by exhibiting at the Conversazione.

They also desire to record their thanks to donors of Books to the Library and Slides to the Cabinet.

Your Committee have met twelve times during the year for the transaction of business, and as far as lies in their power, have endeavoured to promote the true interests for which the Society exists, and trust that in so doing they have secured the confidence of the Members.

HENRY STOLTERFOTH, M.A., M.D.,

Hon. Scientific Secretary.

APRIL 25TH, 1895.



CURATOR'S REPORT.

In order that the Curator should devote as much time as possible in the preparation and arrangement of the Society's Collections, and the final arrangement of them in the new wing of the Museum, it was found necessary to forego all field-work † for the time being, and to solicit as little help as practicable from Field-Naturalists. Obviously this has reduced the amount of donations very considerably, as will be seen on comparing the following table with those of previous years:—

ABSTRACT OF TH	E REPOR	et.	Species Presented.	Total of Species.	Total of Specimens
Botany			 		
Foraminifera			165	165	*
Coleoptera (Beetles) .			 48	48	48
Neuroptera (Dragon Flies)			ī	'I	2
Hymenoptera (Bees, &c.)			 5	5	21
Lepidoptera (Moths)			 48	5 48	91
Hemiptera (Plant Bugs) .			 4	4	10
Diptera (Two-winged Flie			2	2	3
Crustacea (Shrimps, &c.)	,		 2	2	3 6
Mollusca (Shells)			 300	300	
Aracnida (Spiders) .			 7	7	27
Pisces (Fish)			 2	2	2
Aves (Birds)			 40	40	64
Nests and Eggs			 22	22	79
Mammalia (Animals) .			 6	6	6
Reptiles			 2	3	3
Seology			 372	372	410
Miscellaneous	• • •	• • •	 3/2	3/2	16
	•	•••	 		
Total .			 997	997	788

^{*} Impossible to give total of specimens.

Now that the *local* collections are finally displayed in the new department of the Museum, it has been thought necessary to present a census of them, and a brief description of the classification adopted.

⁺ Much of the Curator's own time has been devoted to collecting for the Museum.

CENSUS OF THE LOCAL COLLECTIONS.

				Number of Species.	Number of Specimens.
Mammals (Recent and Fossil)				. 42	121
Birds				171	429
Life-Histories of Birds				27	208
Reptiles and Batrachians				14	29
Fish				45	91
Molluscs (many duplicates)				230	2,026
Polyzou	• •	• •		29	36
INSECTS:					
Hymenoptera				198	576
Life-Histories of ditto				15	279
Lepidoptera (including 120 dupl	icate	specin	ens)	491	2,320
Life-Histories of ditto				25	127
Hemiptera-Heteroptera and Hon	opter	a		255	1,215
Life-Histories of ditto				5	41
Diptera				100	390
Life-Histories of ditto			}	3	29
Neuroptera				23	134
Coleoptera				639	2,781
Life-Histories of ditto				14	123
Gall-making Species				18	122
*Crustacea (Shrimps, Crabs, &c.)				14	46
Echinodermata (Sea-urchins, &c.)				26	95
Hydrozoa				24	42
Spongida (Sponges)				15	57
Foraminifera				201	503
Recent Plants	• •	** '		400	485
GEOLOGY:					
Pleistocene				234	876
Trias				34	71
Carboniferous				146	282
Silurian and Cambrian				114	306
Minerals				42	83
Miscellaneous (Drawings, &c.)	• •	• •	• • •		290
			i	3,193	14,133
Less in old Collection	• •	• •		···	3,000
Total added since 1886					11,133

^{*} The correct total cannot now be given.

CLASSIFICATION.

Animals.—The Fossil and recent forms are arranged together; and that the former may be more instructive, excellent photographs of the restored animals have been provided by Dr. Stolterfoth and placed alongside the fossil remains.

BIRDS.—The classification adopted is that of MR. HOWARD SAUNDERS, as given in his British Birds. Card-maps showing the distribution of about 100 species have been provided. A copy of DR. W. H. Dobbe's Paper on the Birds of the District ["Birds of West Cheshire, Denbighshire, and Flintshire," C.S.N.S., Pro. No. IV., p. 282, 1894] has been printed on buff paper, mounted on card, and the records of each species separated. These have been placed alongside the species to which they refer, so that a very good idea may be obtained of the entire distribution, as well as the local distribution of each species. Since the last Report Life-histories of the following have been prepared:—Mistle Thrush, Sheld-Duck, Lapwing, Dabchick or Little Grebe, Rook, Kestrel, Roseate, and Arctic Terns.

REPTILES AND BATRACHIANS.—These are mounted on the most approved system. A few species are yet necessary to complete the series.

Fish.—These are so poorly represented that little attempt has been made at classification.

Mollusca.—There are two series of these; one arranged in the Cabinet, the other in the Table Cases.

POLYZOA.—Very little has been added to this collection of recent years, except a few photographs of the living animals by Dr. STOLTERFOTH.

INSECTS.—The life-histories are classified in the table cases, and are found to be much more instructive to the general public than the more complete series of the imago only. These latter are arranged in Cabinets for the use of students, but can always be seen on application to the Curator or the attendants. The Colcoptera, Lepidoptera, Hymenoptera, Hemiptera-Heteroptera, and Homoptera, are well represented, but much remains to be done with the other Orders.

The remaining Invertebrates are all arranged in Table Cases; one of the latter is devoted to a magnificent series

of Foraminifera (fossil and recent) of the district, together with drawings and large plaster models. This unique collection has been deposited by Mr. J. D. Siddall, who kindly undertook the classification and arrangement.

The Zoological series is so arranged that the student may, on entering the Museum, commence at either the highest or lowest forms. The most recent classification has been adopted throughout. A great deal remains to be done in the way of re-labelling the greater part of the collection; and part of the non-local collection used for teaching purposes needs rearrangement.

LOAN COLLECTIONS OF OBJECTS FOR LECTURES, &c.

During the year your Curator has given eight Free Lectures to various Institutions, which were fully illustrated by selections from the Society's collections.

The Curator returns his sincere and best thanks to the following for the loan of Reference Books:—Messrs. A. O. Walker, W. Shone, A. W. Lucas, E. Hodkinson, T. M. Lockwood, Thos. Shepheard, E. J. Baillie, Dr. W. H. Dobie, and Dr. Stolterfoth.

In conclusion, your Curator begs most respectfully to thank all those who contributed so liberally to the "Furnishing Fund" for the purpose of providing cases and other material necessary for the proper display of the Natural History Collections; and who, by their sympathetic interest, has aided the efforts of the Curator in bringing together so valuable a collection of objects.

LIST OF DONORS AND ADDITIONS.

BOTANY.

The Curator—Collection of Grasses, &c., for mounting birds, &c.

FORAMINIFERA.

Mr. J. D. Side	dall (recent)		• •	 150	_	
22 22	Fossil (in siti	u)		 15	_	

CO	LEOP	TERA	(Beetles	5.)			
mt c			,	,	Species.	Spe	cimens.
The Curator	• •	• •	• •	• •	6		19
Mr. E. Theodore Green		• •	· · ·	• •	1	_	I
Miss Tomlin		• •	• •	• •	I	_	6
Mr. B. Tomlin	• •	• •	• •		7	_	8
Mr. A. O. Walker	• •				3	-	8
NEUR	OPTE	RA (D	ragon F	lies	.)		
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нүм	ENOR	TERA	(Bees,	&c.)			
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Mr. A. O. Walker		••	••		4		16
			Moths,				10
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Mr. J. Arkle	• •	• •	• •	• •	28	_	64
Dr. W. H. Dobie	• •	• •	• •	• •	I	_	1
Mr. T. R. Hodges	* *	• •	• •	• •	I		I
Mr. R. J. Smith	• •	* *	• •		17		23
Mr. Williams	• •		***	• •	I		2
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Mr. A. O. Walker	••		• •	• • •	3		2
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The Curator	• • •	• •			I	-	2
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Mr. A. O. Walker					2		6
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Mr. G. M. Saunders	• •	* *	• •	• •	300		• •
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Mr. Geo. O. Day					· 1	_	6
Mr. G. Dutton				••.	I		1
Mr. Garnett					I	_	I
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Mr. A. O. Walker	••	**	*••	••	2	_	2
	AV	ES (Bir	ds.)				
Mr. J. Astbury					1	_	ı
Mr. Thos. Bateman			:.		1 .	_	2
Mr. A. D. Pitcairn-Camp					ī	_	2
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Mr. J. Lyon Denson	• •	••	• •		I	_	I				
Dr. W. H. Dobie	••	••	••	• •	3		5				
Mr. Farmer	••	• •	• •	• •	I	_	τ				
Sir Pyers Mostyn, Bart.			••	• •	3		4				
Mr. Chas. Oldham	• •	••	• •	• • •	ī		I				
Dr. Russell	• •	••	• •	• •	I		I				
Mr. R. J. Smith	77	· · · · · · · · · · · · · · · · · · ·	<u> </u>	• •	25		44				
His Grace the Duke of	v estimu	ster, K.	u	••	I	_	I				
NESTS AND EGGS.											
Mr. Thos. Bateman			• •		I	_	I				
Lord Combermere					2	-	3				
The Curator			• •		I	_	5				
Dr. Herbert Dobie			••	• •	I		4				
Sir Pyers Mostyn, Bart.			• •	• •	I	—	6				
Mr. R. J. Smith	• •	• •	••	• •	16		60				
M	AMMA	LIA (Animal	(s.)							
Mr. T. A. Coward					ī		1				
Mrs. Allan C. McEwen			••		ī		ī				
Mr. Garnett				••	ī		1				
Mr. R. J. Smith	••		••	••	2		2				
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Mr. Stewart Clark	••	• •	• •	• •	2		5				
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Rev. F. A. Potts	• •	••	••	• •	I		1 26 P				
Mr. G. M. Saunders	••	• •		ontitu	of Albo	Car	367				
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Dr. Stolterfoth			14 Ph								
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Mr. A. O. Walker	,		ussues.	. Т	wo Pho	hogra	phs.				
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						Cu	rator.				

APRIL 25TH, 1895.

SECTIONAL REPORTS.

BOTANICAL.

A series of six popular Lectures were given in this Section as below:—

1894.

Nov. 8-Introductory-" The Vegetable Kingdom," by MR. E. J. BAILLIE.

" 22-"The Minute Structure of Plants" by MR. J. D. SIDDALL.

Dec. 6-"Fossil Botany," by MR. A. W. Lucas.

" 20-"Life-work of Plants from a Chemical Point of View." by

1895. Mr. F. V. DUTTON. Jan. 3-"The Preservation of Plants," by Mr. Leo Grindon.

,, 17—"Parasitic Plants," by MISS MACDONALD.

All the Meetings were well attended, and interesting discussions ensued upon most of them. Great pains had been taken by each Lecturer in the preparation of the Lectures, which were copiously illustrated by Lantern Slides, and by living and dried examples. We are encouraged to believe that these consecutive series of Lectures serve a most useful purpose in creating and keeping alive interest in that study of Natural History for which the Society was originally instituted. We would also take this opportunity to remind the Members that the Library and Herbarium are open to them for purposes of reference and identification of specimens, and that we, or the Curator, will be at all times very glad to give information and assistance desired.

J. D. SIDDALL, Chairman. G. P. MILN, Secretary.

APRIL 25TH, 1895.

ZOOLOGICAL.

ONE Meeting was held, viz .:-

1894, Nov. I—Zoological observations during the past year by Members of the Society, including a Note on "Wood-borers," by R. Newstead, F.E.S., Curator.

Mr. T. R. Hodges exhibited curious "Malformed Shells" of *Helix Aspersa*, and a species of *Apion* with trifurcated antenna. The Curator exhibited a number of interesting species of Mammals, Birds, Insects, &c. The Note on "Wood-borers" was illustrated by Diagrams and Microscopes.

THOS. SHEPHEARD, F.R.M.S., Secretary.

APRIL 25TH, 1895.

GEOLOGICAL.

In consequence of the Courses of Lectures given by the Botanical and Literature Sections during the past Session, there has been only one Meeting of this Section, when Mr. O. W. Jeffs gave a very interesting Paper on "From Chaos to Man: a Study in Geological Evolution," illustrated by specially prepared lantern photographs.

Our district is exceedingly rich in various kinds of rocks, ranging from the Cambrian System to the New Red Sandstone, some of which contain abundant Fossils, together with Cave Bones and Glacial Boulders and Shells; and an interesting and varied collection of them is now displayed in our extended Natural History Museum. It is, therefore, hoped that arrangements will be made for conversations in the Museum, that those in our Society interested in Geology may have these valuable specimens brought directly under their notice; and thus an incentive may be given to the study of the subject in the different localities from which the fossils have been obtained.

ALFRED W. LUCAS,

APRIL 25TH, 1895.

Secretary.

LITERATURE.

A Course of six Lectures on "England under Elizabeth" was projected. The four following were delivered:—1894.

Feb. 7-" England and Europe in the 16th Century," by Rev. A. H. Fish, B.A.

" 22—"Elizabeth and Mary Queen of Scots," by Rev. A. H. Fish, B.A. Mar. 7—"Social Life and Customs under Elizabeth," by Rev. Dr. Morris. " 21—"Trade and Commerce under Elizabeth," by Rev. Dr. Morris.

The third and fourth Lectures—on "England and Spain," and "Literature under Elizabeth"—were omitted, to allow of the delivery of the two last before Dr. Morris's departure from Chester. All the Lectures were illustrated by Lantern Slides—many of them unique—and were well attended.

ARTHUR H. FISH,

APRIL 25TH, 1895.

Secretary.

PHOTOGRAPHIC.

THE Section has held four Meetings during the Session :-

1894.

Nov. 15th-Exhibition of Lantern Slides by Members of the Section.

Jan. 10th-Exhibition of Lantern Slides, lent by The Royal Photographic Society.

Mar. 14th-" A Trip to Egypt and Palestine with a Kodak," by Mr. Percy K. ALLEN.

April 4th-Exhibition of Lantern Slides (French and Italian Views), lent by MR. JOHN MOSFORD, Tattenhall. Descriptive Lecture by THE SECRETARY.

STATEMENT OF ACCOUNT.

RECEIPTS.	PAYMENTS.
To Balance from 1893 2 0 9	By Postages 6 o o $8\frac{1}{2}$,, Photographic Society
" Subscriptions o 7 6	Great Britain I I o
	,, Carriage 0 3 0
	,, Photographic Papers
	(52 weeks) 0 17 4 Balance 0 6 2½
£2 8 3	£2 8 3
	J. H. SPENCER,
ARRIT. 25TH. 1805.	Secretary.

ARRIL 25TH, 1895.

I have only one Meeting to report, which took place in December, when MR. HENDERSON, of Liverpool, gave an interesting Lecture on his experiences with the Telescope. At this Meeting Photographs of the "Moon," taken by members, were exhibited, and created much interest. Although this is the only Meeting we have had, a lively interest has been kept up during the winter months by members of the Section, especially those who possess telescopes; and, altogether, we have reason to believe that an increased interest is now being taken in this science.

ASTRONOMICAL.

We regret the resignation of our late Chairman, the REV. J. C. MITCHELL, F.R.A.S.; but we are pleased to know that Dr. Dobie has consented to become Chairman of the Section.

HERBERT DOBIE,

APRIL 25TH, 1895.

Secretary.

PAXTON SOCIETY.

IT is now six years since this Society was started, during which time the number of Members and Subscribers have increased from about thirty to over two hundred.

Regular Saturday Evening Meetings have been held throughout the Session, at which Papers (as follows) have been delivered to the Members, who invariably came together in goodly numbers:

1895.

Jan. 12-" Notes on the history of our Cultivated Hardy Fruits," by Mr. J. D. SIDDALL.

., 26-"Soils and Manures," by Mr. J. S. Gordon, B.Sc. Feb. 2-"The Bottling of Fruits," by MR. JOHN WEAVER.

,. 16-"The Carnation," by Mr. J. WYNNE-FFOULKES.

Mar. 2-"Conifers," by Mr. JOHN TAYLOR.

" 16-"Some of the abuses of the modern Horticultural Society," by MR. T. REDINGTON.

April 6-"Violets in Frames," by MR. ROBT. WAKEFIELD.

" 20—"Insecticides"—as used at home and abroad (Illustrated), by MR. R. NEWSTEAD, F.E.S.

The majority of the members are either working gardeners or enthusiastic amateurs, many of whom take a keen interest in the Society and the work carried on in connection with it

The Annual Fruit and Chrysanthemum Exhibition organised by this Society is now recognised as one of the best exhibitions of its kind in this part of the country; a pleasing feature being that the quality and number of exhibits keep improving every year.

> THOS. WEAVER, Chairman. G. P. MILN, Secretary.

APRIL 25TH, 1895:



The Hon. Treasurer in account with the Chester Society of Natural Science and Literature, for the Year ending April 30th, 1895.

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s, d.	12	0 09	4	14	15		1 2 0 6 0 0 0 13 9	15
· Va	18	9	27	46 14	18	64	9	181
Or. 1804-5.	To Balance due to Treasurer	" Museum Management Committee	" Natural History Museum and Library	" Printing, Stationery, &c	" Postages	"Subscriptions— Palæontographical Society £1 1 0 Entomological Society 1.1 0 National Footpaths Preservation Society 0 10 6	" Balance (loss) on Evening Meetings' Account " Alfred Newstead, One Year's Wages. " " Deficiency on Furnishing Account	7
Dr. & s. d. & s. d.	By Subscriptions—	2 for 1891-2 (@ 5/ 0 10 0	3 ,, 1892-3 @ 5/ 0 15 0	25 1893-4 @ 5/ 6 5 0	582 1804-5 (0.5/ 145 15 0.	cture t	Balance due to Treasurer 7 1 12	181 ts 02

June 10th, 1895 - Examined and found correct, and that a balance of Seven Pounds One Shilling and Three Halfpence is due to the Treasurer. C. R. ENOCK,
BERESFORD ADAMS, \Begin{center}
How. Auditors.

Auditors*

Auditors*

Auditors*

Auditors*

Auditors*

Auditors*

Beresford Adams*

Auditors*

Auditors

**Auditors

JOHN MILLS, HON. TREASURER.

"KINGSLEY MEMORIAL" FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1895.

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	£ s. d.	•	82	0	0		0	3	63	£88 2 11	24
Or.	1894.	By Double Number of "Proceedings," including cost	of Illustrations, Postages, &c 82 1 2	" Printing Prize Lists, &c o	" Mr. Siddall, Engraving Medal	" Mr. Pritchard, Painting Name of President on	Board 0 3 0	" Grant to Mr. Alfred Newstead 3 3 o	" Ditto to Mr. A. E. Goodman	*	1895—By Balance down £4 1 7
Dr.	₽ s 9	To Balance 31 0 5	Received for sale of "Proceedings" 37 13 6	Co.	Pankers' Interest (O 4 3	Less Commission		Balance	:	688 2 11	

22ND APRIL, 1895-Examined and found correct, W. VINCENT,

HON. AUDITOR.

HON. TREASURER, 20TH APRIL, 1895.

EDMUND J. BAILLIE,

RECEIPTS AND EXPENDITURE in connection with the Furnishing of the New Natural History Room.

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	+0000000m	8
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PAYMENTS.	Six Large Cases Sundry Joiners' Work Making Tables Iron Frames for Life-History Cases Sundry Smiths' Work French Polishing Glass for Cases Wood Blocks for Mounting Specimens	
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RECEIPTS.	Brought forward Mr. C. Millington Mr. G. P. Miln Mr. E. Rae, F. S.A. Mr. J. D. Siddall Mr. J. Taylor, F. R. C.S., J. P. Mr. Charles Wigg Mr. Charles Wigg Mr. Tom Hughes Mr. J. B. Manning Mr. J. B. Manning Mr. J. G. Orton, J. P.	Miss Tilston 1 0 Mrs. Wood 1 0 Mr. Wood 1 0 Mr. G. Wyndham, Mr.P. 1 0 Mr. H. B. Dutton 0 10 Mr. Lucas 0 10 Mr. Lucas 0 10 Mr. Ruddy 0 10 Mr. C. W. Townshend, J P. 0 10 Miss Woodfin 0 10 Miss Woodfin 0 0 10 Falance from Society's 10 Funds 0 13
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R	*0 2000000000000	and
	55 N. W.	20 000
	Mr. Alfred O. Walker, J.P. Mr. William Brown, J.P. Mrs. Pitcain Campbell Dr. Stolterioth, J.P. Mr. G. R. (riffith) Mr. G. R. (riffith) Mr. Gorge Barbour, J.P. Mr. P. H. Fletcher Mr. F. W. Longbottom Mr. F. W. Longbottom Mr. F. W. Longbottom Mr. F. W. John Mills Mr. F. Saillie, F.L.S.	Mr. C. Brown, J.P. Mr. F. E. Brown, M.A. Mr. J. Lyon Denson Dr. Hechert Dobie Mr. A. Hamilton, M.R. C.S. Mr. A. H. Hignett Mr. T. H. Hignett Mr. E. Hobday Mr. E. Hobday Mr. E. Hobday Mr. E. Hobday Mr. F. Howday Mr. F. Wosey Mr. J. Howday

JUNE 1014, 1095—Examined and found correct,

C. R. ENOCK,

HON. AUDITORS.

BERESFORD ADAMS,

JOHN MILLS, HON. TREASURER.

The following amounts have also been received since the Acco

The following amounts have also been received since the Accounts were closed: -Mr. Vincent, Li ; Mr. Lamont, Li; Mr. P. H. Lockwood, 10/6.

PAST PRESIDENTS.

1871 to 1875-Rev. Charles Kingsley, Canon of Chester (Founder of the Society.)

1875 .. 1891-PROF. T. MCKENNY HUGHES, F.R.S.

ALFRED O. WALKER, ESQ., J.P., F.L.S. HIS GRACE THE DUKE OF WESTMINSTER, K.G. 1892-3

1893-4

W. M. Dobie, Esq., M.D., J.P., F.R.A.S. W. M. Dobie, Esq., M.D., J.P., F.R.A.S. 1894-5

KINGSLEY MEMORIAL MEDAL,

ESTABLISHED 1877,

"For having contributed materially to the promotion and advancement of some branch or department of Natural Science."-Vide Trust Deed.

1877-MRS. CHAS. KINGSLEY (In Memoriam) 1878-JOHN PRICE, M.A.

1879-SIR PHILIP DE MALPAS GREY-EGERTON, BART., F.R.S.

1880-PROF. T. MCKENNY HUGHES, F.R S.

- 1881-D. Mackintosh, F.G.S. 1882-Isaac Byerley, M.R.C.S., F.L.S.
- 1883-George W. Shrubsole, F.G.S.

1884—Alfred Osten Walker, F.L.S.

1885-JOHN DAVIES SIDDALL.

1886-Henry Stolterfoth, M.A., M.D. 1887-WILLIAM SHONE, F.G.S.

1888-THOMAS SHEPHEARD, F.R.M.S.

1889-THOS. RUDDY.

1890-REV. CHAS. WOLLEY-DOD, M.A. 1891—ROBERT NEWSTEAD, F.E.S.

1892—OSMUND W. JEFFS. 1893—EDMUND J. BAILLIE, F.L.S.

1894-W. MURRAY DOBIE, M.D.

KINGSLEY MEMORIAL PRIZES.

ESTABLISHED 1877,

" For the reward, encouragement, and the advancement of the pursuit and study of Natural Science."-Vide Trust Deed.

1878 (HELEN SMITH £5) Herbarium of Flowering Plants.

Carboniferous Fossils. 1879 - GEORGE SHRUBSOLE .. Cryptogamous Plants. 1881—E. HOPKINS

Corals of the Mountain Limestone. 1882—GEORGE SHRUBSOLE .. 10

1886-ROBERT NEWSTEAD .. 10 Hymenoptera.

Notes on Observations illustrating the 1887—John Lyon Denson.. 5 Natural Science of the Society's District.

Coleoptera.

1888—LILIAN E. TOMLIN ... 1889 { EDITH C. TOMLIN ... W. E. SHARP...... 5 | Diptera and Hymenoptera (Terebrantia.) 5 | Coleoptera.

1890 -- ALFRED J. NIXON ... 10 Land and Fresh-Water Shells.

1892-W. E. SHARP 10 Coleoptera.

KINGSLEY MEMORIAL PRIZES.

Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition:—

1895.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above Prize, the Committee have decided that, in order to encourage scientific research, they will make Grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

* All Collections must be made in Cheshire or North Wales, or the Seas adjoining thereto, by the persons competing.

The Collections, Essays, or Notes of Observations, may be sent in ceither of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Col ections, &c., or any part of them, for the Society.

Intending Competitors can obtain all particulars, and the conditions under which the Prizes are offered, from either of the General Secretaries; and all Collections, &c., must be sent in to either of them on or before the 1st September in each year.

SOCIETIES ASSOCIATED,

WITH WHICH THE SOCIETY EXCHANGES PUBLICATIONS.

Academia Nacional de Ciencias de la Republica Argentina, Cordoba.

Barrow Naturalists' Field Club.

Brighton and Sussex Natural History Society.

Bristol Naturalists' Society.

British Association (Corresponding Society's Committee.)
British Museum (Natural History), Cromwell Road,
London, S.W.

Burnley Literary and Scientific Club.

Cardiff Naturalists' Society.

Cassel Society of Natural Science.

Dudley and Midland Geological and Scientific Society and Field Club.

Epping Forest and County of Essex Naturalists' Field Club.

Glasgow Natural History Society.

Hertfordshire Natural History Society and Field Club.

Huddersfield Naturalists' Society.

La Société d'Histoire Naturelle de St. Wladimir á Kiew, Russie.

Leeds Naturalists' Club.

Liverpool Geological Society.

Liverpool Geological Association.

Liverpool Literary and Philosophical Society.

Liverpool Microscopical Society. Liverpool Naturalists' Field Club.

Liverpool Science Students' Association. Manchester Field Naturalists' Society.

Manchester Geological Society.

Manchester Geological Society.
Menai Society of Natural Science.

Northampton Natural History and Field Club.

North Staffordshire Naturalists' Field Club and Archæological Society.

Norwich Science Gossip Club. Nottingham Naturalists' Society.

Patent Office Library, 25, Southampton Buildings, Chancery

Lane, London, W.C. Postal Microscopical Society.

Quekett Microscopical Society.

Smithsonian Institution, Washington, D.C.

The Missouri Botanical Garden, St. Louis, U.S.A.

United States Geological Survey. Vatican Observatory, Rome.

Vienna Natural History Museum. Wigan Literary and Scientific Society.

Yorkshire Naturalists' Union, Leeds.

HONORARY MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

*Ball, Sir Robert S., F.R.S.	Observatory, Cambridge
Barrett, Chas. G., Esq., F.E.S	39, Linden Grove, Nunhead, London,
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S.E.
*Carruthers, W., Esq., F.R.S.	The British Museum, South Ken-
	sington, London, S. W.
*Dawkins, Prof. W. Boyd, F.R.S	Woodhurst, Wilmslow rd., Fallow-
D m 11 m	field, Manchester
De Tabley, The Right Hon. Lord	62, Elm Park road, Chelsea, London,
*Grindon, Leo H., Esq.	S. W.
	20, Cecil Street, Greenheys, Manchester
HICKS, H., Esq., F.R.S.	Hendon Grove, Hendon, London,
Hooker, Sir J. D., K.C.S.I., F.R.S.	The Camp, Sunningdale, Ascot
*Hughes, Prof. T. McKenny, F.R.S	Trinity College, Cambridge
"Hull, Prof., F.R.S.	20. Arundel Gardens, London, W.
Huxley, Prof. T. H., F.R.S.	Hodeslea, Eastbourne
*Judd, Prof., J. W., F.R.S.	Royal College of Science, South
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Norman, Rev. Canon, F.R.S.	209, Edge Lane, Liverpool, E.
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Oxford, The Lord Bishop of	The Dalage Carletonles Out
"RAP, E., ESQ., F.S.A.	Court Lodge. Rirkenhead
Renard, The Abbé	Curator of the Royal Museum of
D (1' 17 T)	Natural History, Brussele
Roscoe, Sir Henry E., M.P., F.R.S.	10, Bramham Gardens, London, S. W.
*Rudler, F. W., Esq., F.G.S.	Museum of Practical Geology, Jer-
Sanderson, Dr. Burden, F.R.S.	myn Street, London, S. W.
*Vize, Rev. J. E., M.A.	.64, Banbury Road, Oxford Forden Vicarage, Welshnool
,	L'orach recurage. Welshbool.

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Joachim, Mr. Geo.	Dundin Otana N. W.
Leather, Mr. F. S.	Non Zorland
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Nivon Mr A T	bronderw, Oswestry
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Oldham, Mr. C.	Sale, Cheshire
Reade, Mr. Oswald A.	
"Rowston, Mr. R.	Kingolou Alton Trust.
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*Wilkins, Mr. T. S.	Coea Cocn, Abergele
Williams Mr. C. T. T. C.	Uttoxeter
Williams, Mr. G. J., F.G.S.	H. M. Inspector of Mines Paragon

NOTICE.

~ SER

THE ANNUAL SUBSCRIPTIONS are due on the 1st of May in each year. Members who have not paid for the present year are respectfully requested to forward the amount (Five Shillings) to the Hon. Treasurer, Mr. JOHN MILLS, Chemist, Eastgate Row.

To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary according to Rule 8.

LIST OF MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

Acton, Mrs Grove road, Wrexham
Adams, Mr. Beresford Shirley House, Liverpool road
Adams, Mr. Geo. F Ashbourne, Victoria road
Ainsworth, Miss F 4 Nicholas street
*Allen, Mr. Percy K22 Lorne street
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Appleton, Mr. John Bouverie street
Archer, Mr. W. E 5 Lightfoot street
*Arkle, Mr. J Diocesan School, George street
Arnold, Miss MargaretChichester street
Atkinson, Rev. Bernard N., M.A29 Chichester street
Bailey, Mr. H. GrantCrypt Chambers
*Baillie, Mr. E. J., F.L.S Woodbine, Upton
Baillie, Mrs, ,, ,,
*Bairstow, Mr. J., F.C.S 32 Sealand road
Baker, Miss Grey Friars
*Ballard, Mr. E. G., A.R.S.M Newton, Chester
Ballard, Mrs ,, ,,
Barbour, Mr. Geo., J.P Bolesworth Castle, Tattenhall
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Barrow, Miss The Infirmary
Bassett, Miss C. E 68 Northgate street

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*Bedford, Rev. J. L., M.A., F.L.S. I	o Abbey square
Bedford, Mrs. Best, Rev. J. D., M.A. I Bevan, Mr. William 6	29 22 29
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Bevan, Mr. William	5 Phillip street, Hoole
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Billing, Miss Gertrude	Voodbank, Christleton road
Birch, Mr. H. J.	orville, Liverpool road
Birch, Miss	8 Upper Northgate street
Bitholl Mr W	b Bouverie street
Blavney Mr. A	Aessrs. Beckett & Co., Eastgate row
Blayney, Mr. A	City walls, w.
*Blood Rev H R M A	Produkan Winner Cl. 11
Blayney, Mrs. **Blogg, Rev. H. B., M.A	Todsham Vicarage, Cheshire
Blomfield, Admiral	of the said of the
Blower, Mr. T. B.	
Blower, Mr. W 4	Williams' townson Haal-
Bolland, Mr. Frank	Hough groon
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Bonnalie, Mrs	CS Abbay sauara
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Bowers, Mrs.	· ·
Bowles, Mr. T. S	I Raymond street
Box, Mr. Henry4	6 Frodsham street
Bouson Mice Annie II	Grove House, Larkhall Rise Clapham
Boyson, Miss Anne H.	Grove House, Larkhall Rise, Clapham, London, S.W.
Bradbury, Mr. R. P.	tocks lane. Great Boughton
Diadicy, Miss Eva.	o watergate row
Drassey, Miss, R	lose Hill, Bowdon Cheshire
Brassey, Mrs.	" "
Brassey, Mrs	5 Paradise row
Brewer, Miss Anne	,, ,,
Broadbent, Mrs	ache cottage
Brewer, Miss Anne Broadbent, Mrs. B Brown, Mr. C., J P. T Brown, Miss J. F	he Folly, Flookersbrook
Brown, Miss L. E. Brown, Mr. W., J.P.	21 21
Brown, Mr. F. F., M.A.	3 Curzon park
Brown, Miss Constance L59	asigate row
Brown, Miss Marion	opper Northgate street
Brown, Miss Marion. Brown, Mrs. Samuel.	Bridge street row (W)
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Bullin, Mrs. Bullin, Miss E.	
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Burrell, Mr. T. G.	a Forevate street
Dunows, Mr. R.	allway Inn. Brook street
Butcher, Mr. Jas	Union walk
Campbell, Mrs. PitcairnV	icar's Cross, Chester
Campbell, Miss Pitcairn	22 19
Campbell, Mr. A. D. Pitcairn	27 17

Carr, The Hon. Mrs	Richmond lodge, Boughton
Chalton, Mr. T. W	Wynstay, Hoole, Chester
Chalton, Mrs	22 21 21
Chalton, Mrs	42 Tarvin road
Chapman, Mr. W. R.	1 @ Messrs. Stead & Simpson's, 11 Fore- gate street
*Charten The Dight Day The Lor	rd Bishop of The Palace, Dee Side
Clare, Mr. Horatio	St. John's Schools Vicar's lane
Clarke, Mr. Geo. E.	Porton villa Curzon park
Clemence, Mr. S	2 Chichester street
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Clough Mrs	2 Hough Green
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Combe, Mrs	Glan Aber Saltney
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Connack Miss	
Coppack, Miss Nellie	., .,
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*Cowap, Mr. C. R	20 Granville road, Cambrian view
Crum, Mr. W. G. J.P	Thornliebank, Glasgow
Cummings, Miss	King's Buildings
Curjel, Mr. H. W	The College, Chester
2,,	
*D 1 T D T T T T	The Decrees
*Darby, Very Rev. J. L., D.D	
Davies, Miss Henrietta	
Davies, Mr. E. Henry	19 Francis street
Davies, Mr. Joseph	Parr's Ranking Co. Chester
Davies, Mr. John	Tall's Danking Co., Chester
Davies, Br. J. F	75 Crane street The Vicarage, Rhosesmor, Holywell
Davies, Miss	St. Michael's Schools
Davies, Mr. A. H	The Fastgate
Day, Mr. John	Bryntirion Parkgate road
Denson, Mr. W	21 Upper Northgate street
Denson Mrs	21 opportioning are street
Denson Miss Adelaide	, ,, ,,
Denson, Mrs. Denson, Miss Adelaide Denson, Mr. J. Lyon Dickson, Mr. Geo. A., J.P.	
Dickson, Mr. Geo. A., I.P.	Springfield, Flookersbrook
Dickson, Mrs	., ., ., ., ., ., ., ., ., ., ., ., ., .
Dickson, Mrs Dickson, Miss Lavinia Dickson, Mr. Jas.	"
Dickson, Mr. Tas.	Upton House, Chester
Dickson, Miss	
Dickson, Mr. S. J. R	Mayfield House, Hoole
Dickson, Miss Dickson, Mr. S. J. R. Dickson, Mrs. W. Alfred	Newton villa
Dickson, Mr. Guy Tritton	,, ,,
Dickson, Mr. Guy Tritton *Dobie, Dr. W. M., J.P., F.R.A.	S Northgate House
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Dobie, Miss Mildred	
Dobie, Mr. Douglas	

*Dobie, Mr. W. H., M.B22 Upper Northgate street
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Dod, Miss Wolley, ,,, Dodd, Mr. W
Dodd, Mr. John 18. Cambrian crescent
Dodd, Mr. John18, Cambrian crescent Dodds, Miss M. EvelynThornleigh, Hough green
Dowdall, LieutCol. A. P Curzon park
Dowdall, Mice A
Dowdall, Miss A
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Duckworth, Mr. Winiryd Lawrence H., B.AChrist Church Vicarage
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Dutton, Mr. George, J.P Curzon House
Dutton, Mrs
Dutton, Mrs. G. W 15 Curzon park
Dutton, Mr. H. B Freshfield, 27 Curzon park
Dutton, Mrs
*Dutton, Mr. F. V
Dutton, Miss M
Dye, Mr. Alfred B
Edwards, Mr. J74 Foregate street
Edwardes, Miss Kate36 Sealand road
Eggers, Miss
Enlott, Dr. John, B.S., B.Sc White Friars lodge
Elliott, Miss, ,, ,,
Elliott, Miss
Enock, Mrs.
Enock, Miss, Stanley House
Evans-Lloyd, Col., J.P Stanley House
"Evans, Mile Fe Inc Eastgate
Evans, Miss
Evans, Miss J. E
Ewing, Mr. C. A 3 Brookside villas, Flookersbrook
g, , , , , , , , , , , , , , , , , , ,
Farmer, Mr. Richard36 Liverpool road
Farrimond, Mr. F. T. Sunnyside, Boughton Ferguson, Mr. W The Cairn, Liverpool road
Ferguson Mr W The Cairn Livernool road
Ffoulkes, His Honor Judge Wynne, M.AOld Northgate House
Ffoulkes, It's Thomas P. Juny & Purlington road Inquish
Ffoulkes, Mr. Thomas B., Junr 8 Burlington road, Ipswich
Ffoulkes, Mr. Geo. B15 Chichester street
Finchett-Maddock, Mrs. HAbbey square
Finchett, Mr. W. HThe Old Rectory, St. Mary's Hill
Firth, Mr. N. C
Firth, Mr. N. C. 125 Foregate street Fish, Mrs. Arnold House, Parkgate road *Fish, Rev. A. H., B.A., B.Sc. , , , , , , , , , , , , , , , , , , ,
*Fish, Rev. A. H., B.A., B.Sc , , , , , , , ,
FitzPatrick, The Lady Olivia Warren Hall, near Chester
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Fleet, Mr. H
Fletcher, Miss, ,,
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Footner, Mr. H4 King's buildings
Footner, Mrs.
Footner, Mrs
*Francis Mr F F Kilmorev park: Hoole
*Francis, Mr. F. E
Frace, Miss. Wing's buildings
Frazer, Miss
Frost, Sir Thomas G., J.P Redcliff, Queen's park
Frost, Lady, ,, ,,

Frost, Mr. J. G	.Dee Lodge
Frost, Mrs Frost, Mr. T. Gibbons	Richmond Hill
Frost, Mrs	
Gardner, Mrs. W. A	Redland House, Hough green
Gardner, Miss	. 39 39 19
Gardner, Mr. Stanley R Gardner, Mr. E	o Abbey street
Garnett, Mr. W.	Bridge street row
Garnett, Mrs	The Rectory, Christleton
Gibson, Mr. J. M.	Buckley, zia Chester
Gibson Miss	5 Crane street
Gibson, Mr. John Gilbert, Mr Leonard, J.P.	South View, Eaton road
Gilbert, Mr Leonard, J.P	Egerton villa, Liverpool road
Gilbert, Mr. Egerton	. 132 Overleigh road, Handbridge
Gilbert, Mrs* *Giles, Rev. W. T., M.A., F.R.G	S. The Asylum, Chester
Giles, Mr. E. S	.Gowymede, Vicar's Cross
Giles Mrs.	
Glascodyne, Miss	. 11 Cambrian view
Golder, Mr. S	.41 Liverpool road
Goodman, Mr. A. E.	. Fern Bank, Filkin's lane
Goodhart, Mrs. E. S.	. 96 Watergate flags
*Granger, Mr. F. M., M.R.C.S.,	
Grantham, Rev. H.	. S. Mary's Rectory
Gray, Miss	.4 Lorne street
Greenhouse, Mr. Chas	. I Eversiey park
Griffith, Mr. G. R.	20 Hough green
Griffith, Mrs.	. 30 Hough green
Griffith, Miss	. ,, ,,
(inthith Miss (), Collengite	
Griffiths, Mr. Ino	. Hamilton street, Hoole
Cuiffithe Mrs	
Griffiths, Miss	. 2 Holly Bank, Queen's park
Griffiths, Mr. John*Griffiths, Rev. T. Turner, M.A	*
*Griffiths, Rev. T. Turner, M.A	, ,, ,, ,, ,,
Gunton, Miss	. Rimmersheld
Gwyther, Mr. Cecil W., A.I.E.E	National Telephone Co., Chester
Haddacks, Mr. C. R	.6 Ash grove
*Hall Mr T H. A.	Montrose House Hough green
Hall, Mrs.	
Hall, Miss Cecile	. 31
Hall, Miss Josephine	°C44 TT C-1-51 C14
Hamel, Miss	Staunton House, near Coleford, Gloucester .16 White friars
Hamilton, Mr. A., M.R.C.S	. 10 White mars
Hamilton, Mrs	Halkyn Road Flookersbrook
Hardy Mr. I. F.	The Blue Coat School, The Northgate
Harnaman, Mr. J. M	Alvanley, Warrington
Harrison, Miss	. 13 Chichester street
Harrison, Mr. N.	Highfield, Curzon park
Harrison Mrs.	
Haswell, Mr. G. H.	Queen's park
	*

Haswell, Miss Florence E	. 31 Parkgate road
Heeley, Mrs. W. J. Henderson, Mr. J. E. Henderson, Mr. Wm.	. Lorne street
Henderson, Mr. J. E.	. 19 Pathway. Queen's park
Henderson, Mr. Wm.	. 11 Union Walk
Henshaw, Mr. T. Henshaw, Mr. T. A. Henshaw, Miss Edith E. Henshaw, Miss Florence M.	The Hollies, Liverpool road
Henshaw, Mr. T. A.	
Henshaw, Miss Edith E.	• "
Henshaw, Miss Florence M	• "
Hennel Miss	8 Hough green
Hennel Mice M E	. o 110agn green
Heppel, Miss M. E. Hepvelt, Mr. David L.	Abbey House Northgate street
Hickman Mr F F	8 Northanta street
Hickman, Mr. F. F	To The Groves
Hickman, Miss	Ct Martin's in the folds
Hicks, Capt. E. C.	The Martin S-III-the-Reids
Higgins, Miss Eva	, The Manor, Overleigh
Higgins, Miss Millie	- 77 7
Hignett, Mrs.	. 14 Hough green
Hignett, Mr. A. H. Hignett, Mrs. T. H.	,,
Hignett, Mrs. T. H	. 18 Hough green
rimcks, Mr. ri. 1	, or Northgate street
Hobday, Mr. J	. Alexandra Villa, Liverpool road
Hobday, Mr. E.	• 57 37
Hobday, Mr. Jas., B.A.	, 22 The Groves
*Hodges, Mr. W. Hodges, Mr. T. R. Hodges, Miss A. G.	. 31 Hough green
Hodges, Mr. T. R	. 11 21
Hodges, Miss A. G	
Hodkinson, Mr. E	. 35 Pepper street
Holland, Miss A. E	.2 Everslev park
Holland, Miss S. L	
Holland, Miss S. L	* 23 22
Holme, Rev. Canon, M.A	Great Budworth Northwich
Holmes, Mr. J. G.	Belmont Curzon park
Honking Mrs	22 Queen street
Hopkins, Mrs	60 Watergate street
Hopley, Mr. J. H.	Chemist Northwate street
Hostage, Mr. George B	
Hostage, Mrs	on Foton wood
Hostage, Miss	E cuton House Hanse Noutheats street
Howson, Rev. J. F., M.A	Egerton House, Upper Northgate street
Howson, Miss	• 29
Howson, Miss M	· ,,
Howson, Rev. G. J., M.A	. The Vicarage, Crewe
Hudson, Mrs. R. S	. Dache Hall, Chester
Hughes, Mrs. McKenny	. 18 Hills road, Cambridge
*Hughes, Mrs. McKenny *Hughes, His Honor Judge, Q.C.	. Uffington House, Dee Hills
Hughes, Mrs	.47 Victoria street, Westminster, London
Hughes, Mr. John	.47 Victoria street, Westminster, London
Hughson, Mr. A	Crossloom villas, Mollington
Huke, Mr. J. W	. Foregate street
Humberston, Miss	. Newton Hall, Chester
Humphreys Mr. F. Noel	Grosvenor chambers 6 Newgate street
Hunter, Mr. Jas	. Maisonnette, Hough Green
Hunter, Mr. Jas. Hunter, Mr. C. P.	. 11
Hutchings, Mr. J. H	.47 White friars
8,,,,,	
Jackson, Mr. Roger	.26 Hough green
Tackson, Miss.	
Jackson, Miss	. Upton villa, Chester
January	, - F

Jacob, Rev. Joseph, M.A	. Whitewell Rectory, Whitchurch (Salop)
Jayne, Mr. Roland G.	. The Palace, Dee side
Javne, Mr. K.	
*Tebb. Mr. G. R. C.F.	Fairyfield, Great Bar, Birmingham
*Info Mr O W	Parly torrace of Westbournest Tirramed
Tenlanda Mar Cl. I. D.A.	. Park terrace, 92 Westbourne st., Liverpool
Jephcott, Mr. Charles, B.A	. 13 Lorne street (North)
Johnson, Major	9 Upper Northgate street
Johnson, Mrs	. 11 Bertram road, Sefton park, Liverpool
Johnson, Mr	
*Johnson, Mr. M., L.D.S.I	o York villas, Lorne street
Johnson, Mr. Thomas C	Clayton house Duke street
Jones, Miss Maggie	. King's buildings
Jones, Miss	The North gate
Jones, Mrs. Edward	. Describer and
Jones, Mrs. Edward	. I Paradise row
Jones, Mr. Jno., Sheriff of Cheste	er . 5 Lorne street (North)
Jones, Mr. F. M. Jones, Mr. J. M.	. ,,
Jones, Mr. J. M.	. Roodee Works
Joyce, Mrs.	. Ferndale, Liverpool road
3 , ,	,
Keith, Dr. N. S., M.I.E.E	
Kelham, Mr. Augustus	.3 Eversley park, Liverpool road
Kelsall, Miss H	Abbot's court. Liverpool road
Kemp, Mr. George	
Kenyon, Mr. G. A., M.B	Flookershrook
Konyon Mrs	. I lookelsblook
Kenyon, Mrs	" - (DT' 1 - 1 ((
King, Dr. H. W	,20 Nicholas street
King, Mrs	
Kingsley, Miss	10 Walton place, Hans place, London, S.W.
Kinsey, Mr. T. E. Morris	Dee Hills park
Knowles, Mr. E. R.	.Grosvenor street
Knowles, Mr. E. R	. Grosvenor street
Knowles, Mr. E. R Kynnersley, Mr. E. M. Sneyd .	. Grosvenor street
Knowles, Mr. E. R	Grosvenor street .Boughton lodge
Knowles, Mr. E. R	. Grosvenor street . Boughton lodge
Knowles, Mr. E. R	. Grosvenor street . Boughton lodge
Knowles, Mr. E. R	. Grosvenor street . Boughton lodge
Knowles, Mr. E. R	. Grosvenor street . Boughton lodge
Knowles, Mr. E. R	. Grosvenor street . Boughton lodge
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss. Lanceley, Mr. R. H.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . """.
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss. Lanceley, Mr. R. H.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . """.
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon, A	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " " . Victoria road . Green bank, Liverpool road . Eccleston hill
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss. Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " "" . Victoria road . Green bank, Liverpool road . Eccleston hill
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawerence, Dr. A.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . "" . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S.	. Groen bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S.	. Groen bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " "" . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss. Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " "" . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool . 76 Foregate street
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " "" . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool . 76 Foregate street . 17 Eaton road
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " "" . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsheld Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Ladv	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " " . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Leess, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " "" . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place . "Abbot's mount, Liverpool road
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E. Lloyd, Mrs. E.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " "" . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place . Abbot's mount, Liverpool road . 13 Chichester street
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. **Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E. Lloyd, Mrs. E. Lloyd, Miss M. E. Lloyd, Miss M. E. Lloyd, Miss M. E.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " " . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsheld Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place . Abbot's mount, Liverpool road . 13 Chichester street . 56 Princess street
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. **Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E. Lloyd, Mrs. E. Lloyd, Miss M. E. Lloyd, Miss M. E. Lloyd, Miss M. E.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " " . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsheld Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place . Abbot's mount, Liverpool road . 13 Chichester street . 56 Princess street
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Mr. A., Junr. Lamont, Mr. B. Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E. Lloyd, Miss M. E. Lloyd, Miss M. E. Lloyd, Miss E. *Lockwood, Mr. T. M., F.R.I.B.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " " . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place . Abbot's mount, Liverpool road . 3 Chichester street 56 Princess street 4 80 Foregate street
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A. Lamont, Mr. A. Lamont, Mr. S. Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E. Lloyd, Miss M. E. Lloyd, Miss E. *Lockwood, Mr. T. M., F.R.I.B.A Lockwood, Mr. S.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " "" . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place . Abbot's mount, Liverpool road . 13 Chichester street . 56 Princess street A 80 Foregate street . 7 Queen's park
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. **Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Miss M. E. Lloyd, Miss M. E. Lloyd, Miss M. E. *Lockwood, Mr. T. M., F.R.I.B.A Lockwood, Mrs. T. Lockwood, Mrs. T. Lockwood, Mrs. T. Lomax, Mr. F. T.	Grosvenor streetBoughton lodge Moore Holme, Neston3 City Walls (West)
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E. Lloyd, Miss M. E. Lloyd, Miss E. *Lockwood, Mr. T. M., F.R.I.B.2 Lockwood, Mrs. Longa, Mr. F. T. Longa, Mr. F. T. Longa, Rev. Francis, M.A.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " " . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place . Abbot's mount, Liverpool road . 13 Chichester street . 56 Princess street . 56 Princess street . The Street . So Foregate street . The Street . So Foregate street . The Street . So Foregate street . The
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E. Lloyd, Miss M. E. Lloyd, Miss E. *Lockwood, Mr. T. M., F.R.I.B.2 Lockwood, Mrs. Longa, Mr. F. T. Longa, Mr. F. T. Longa, Rev. Francis, M.A.	. Grosvenor street . Boughton lodge . Moore Holme, Neston . 3 City Walls (West) . " " . Victoria road . Green bank, Liverpool road . Eccleston hill . The Asylum, Chester . The Bars . Guilsfield Vicarage, Welshpool . 76 Foregate street . 17 Eaton road . Stanley place . Abbot's mount, Liverpool road . 13 Chichester street . 56 Princess street . 56 Princess street . The Street . So Foregate street . The Street . So Foregate street . The Street . So Foregate street . The
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A. Lamont, Mr. S. Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E. Lloyd, Miss E. *Lockwood, Mr. T. M., F.R.I.B.* Lockwood, Mr. T. M., F.R.I.B.* Lockwood, Mr. S. Lomax, Mr. F. T. Long, Rev. Francis, M.A. Long, Rev. Francis, M.A. Long, Mrs. *Longbottom, Mr. F. W.	Grosvenor streetBoughton lodge Moore Holme, Neston3 City Walls (West)
Knowles, Mr. E. R. Kynnersley, Mr. E. M. Sneyd Lacy, Mrs. Lamont, Mr. A. Lamont, Mr. A., Junr. Lamont, Miss Lanceley, Mr. R. H. Latham, Mr. J. S. Lawley, Capt. The Hon. A Lawley, The Hon. Mrs. *Lawrence, Dr. A. Lees, Mr. W., M.R.C.S. Lewis, Rev. J. S., M.A. Lipsham, Mr. F. Littler, Miss Lloyd, His Honor Sir Horatio Lloyd, Lady Lloyd, Mrs. E. Lloyd, Miss M. E. Lloyd, Miss E. *Lockwood, Mr. T. M., F.R.I.B.2 Lockwood, Mrs. Longa, Mr. F. T. Longa, Mr. F. T. Longa, Rev. Francis, M.A.	Grosvenor streetBoughton lodge Moore Holme, Neston3 City Walls (West)

Lowe, Mr. G. B25 Hough green
Lowe, Miss C. H,
*Lowe, Mr. W. F., A.R.S.M., 9 Hough green
F.I.C., F.C.S.
Lowe, Mrs.
Lowe, Mr. Jas. F., B.A Dee banks
Lowe, Mrs, ,,
*Lucas, Mr. A. W., F.G.S Victoria pathway, Queen's park
Lund, Mrs Thorpe villa, Liverpool road
Lowe, Mrs. ", ", ", ", ", ", ", ", ", ", ", ", ",
*Macdonald, Mr. G. E 3 Abbey square
*Macdonald, Miss Eva, ,, ,,
Manley, Mr. HAston, Nantwich
Manning, Mr. J. B The Governor's House, H.M. Prison,
Pentonville, London
Manning, Miss Edith 18 Upper Northgate street
Mann, Mr. A., M.BNewgate street
Mann, Mrs. , , , , , , , , , , , , , , , , , , ,
Marchant, Mr. W. H Whitefriars house
Marsden, Miss 6 Grosvenor park road
Mason, Mr. F. B67 Parkgate road
Massie, Admiral 3 Stanley place
McEwen, Mrs
McKindlay, Mr. AndrewAldford, Chester
McMichael, Mr. J. A., B.A24 Bouverie street
McMichael, Mrs, ,, ,,
Middleton, Mr. G Sandown terrace
Middleton, Mrs.
2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Millington, Mr. C. Victoria house, Victoria road
Middleton, Mrs. , , , , , , , , , , , , , , , , , , ,
TMHS, Mr. John 4 Easigate row
TMHS, Mr. John 4 Easigate row
Mills, Mrs, *Mills, Mrs. G. P
Mills, Mrs, *Mills, Mrs. G. P
*Mills, Mrs, , , , , , , , , , , , , , , , ,
*Mills, Mrs, , , , , , , , , , , , , , , , ,
*Mills, Mrs, , , , , , , , , , , , , , , , ,
Mills, Mrs
Mills, Mrs
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*Mills, Mr. John
*Mills, Mr. J. Onlin
*Mills, Mr. J. Onlin
*Mills, Mr. J. Onlin
Mills, Mrs
*Mills, Mrs
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*Mills, Mrs
Mills, Mrs
*Mills, Mr. John
*Mills, Mr. John
Mills, Mrs
*Mills, Mrs
Mills, Mrs

*Newstead, Mr. R., F.E.S	The Grosvenor Museum
Nicholls, Mr. W. A. M.	
Nicholls, Mr. G. F.	12 Chichester street
Nicholson, Mr. J. M.	. Chamber 301
Noyes, Mr. H. J	Cheyney villas
*Okell, Mr. E. W	22 Northgate street
Okell, Mr. P. H.	I Northgate street
*Okell, Miss M. H.	6 Curzon park
Oldfield, Mrs.	68 Northante street
Oldfold Miss	Deur Chard St Acarb
Oldfield, Miss	65 Parlacete wood
Oldmeadow, Mr. Geo. E	05 Parkgate road
Orton, Mr. R. O., J.P.	, lattennall, Chester
Owen, Mr. Hugh L	. Ashton House, New Crane street
Parkes, Mr. A	Bridge street row
Parkes, Mrs	
Parkes, Mrs	. Farndon Hall, Chester
*Parry, Mr. T. S., M.B	to Unner Northgate street
Parry, Mr. Morris	21 Victoria road
Partington, Mr. John T.	Watford House Victoria road
Payre Mice	A hher green
Payne, Miss	4 Abbey green
Payne, Miss A Phillipson, Mr. J	*
Phillipson, Mr. J	23 Liverpoor road
Phillipson, Mr. H. G	Crowthorne, Childer Thornton, Chester
Porter, Mrs.	Crowthorne, Childer Thornton, Chester
Potts, Mr. A., M.A.	. Diocesan Training College
Petts, Miss C L	. Heron Bridge
Potts, Miss C L	.54 Northgate street
Powell, Mr. T. J	.14 Newgate street . Abbot's grange, Liverpool road
Preston, Mr. F. M	. Abbot's grange, Liverpool road
*Price, Mr. Walmsley	. 26 Watergate row
Price, Miss	.53 Rutland terrace, Parkgate road
Prichard, Mr. Geo	. o The Groves
Prichard, Miss	
Pritchard, Mr. Chas. J	. 30 Eaton road
Pritchard, Mr. W	17 Watergate row
Pye, Mr. Jas	Clovelly House Eversley nark
Due Mee	. Clovelly House, Eversiey park
Pye, Mrs	Saughall Chester
*D - 35 T E	Murdoch House Chromoburn
*Pye, Mr. T. E	. Murdoch House, Shiewsbury
Radford, Rev. Arthur, LL.M	
	. Windsor Lodge, Mickle Trafford
Rayner, Miss	. Ash grove, Wrexham road
Richardson, Mr. A	. Bridge street row
Roberts, Miss	. Bank Cottage, Neston
Roberts, Miss M	.8 Nicholas street
Roberts, Dr., J.P.	. 8 Abbey square
Roberts, Dr., J.P	. Crypt Chambers
Roberts, Miss Tohnson	. 7 Lumley road, Liverpool road
Roberts Miss	Overleigh, Hough green
Roberts, Miss Roberts, Mr. B. C., J.P Roberts, Mr. R. H	Oakfield Unton
Pohorte Mr P H	7 St Anne street
Roberts, Mr. W. F	Well House Chester
Doboute Mr. I Cheriff	Curson park
Roberts, Mr. J. Sheriff	
Roberts, Mrs	* 17 17

Rogers, Mr. James	The Cross
Rogers, Mr. Jno. Rogers, Mr. W. Rogerson, Mr. G. H.	. Watergate flags
Rogers, Mr. W	• ,, ,,
Rogerson, Mr. G. H.	. 4 Nicholas street
Royle, Mrs	. Hough Green House
Ryde-Jones, Mr. T	. Union Bank House, The Bars
Sandbach, Mr. S. H., J.P.	Cherry hill Malnas
*Sandford, Mrs. Henry	Oveen's School
Sant, Mr. T.	Frodsham
*Schidrowitz, Dr. P., Ph.D., F.C.	S24 Chichester street
Schröder, Mr. W. G	. 17 Eaton road
Scotland, Mrs	. Vicar's lane
Scott, Mr. John	, 19 Chichester street
Scott, Rev. S. Cooper, M.A Segar, Mr. F., L.D.S.E	St. John's Rectory
Segar, Mr. F., L.D.S.E	. White Friars House
Sharpe, Mr. F. W.	.7 Abbey square
Sharpe, Mr. Alan*Shepheard, Mr. T., F.R.M.S.	77. 11 70
*Shepheard, Mr. 1., F.K.M.S.	Kingsley, Bournemouth
Shepheard, Mrs. Shepheard, Miss Shepheard, Miss Emma Shepheard, Miss F. Shepheard, Miss Rose	• ,,
Shepheard Miss Emma	• ,,
Shepheard Miss F	• ,, ,,
Shepheard, Miss Rose	• • • • • • • • • • • • • • • • • • • •
Shepheard, Miss Rose Shepheard, Mr. W. F. J	. Bridge Street row
Shepheard, Mr. J. D.	National Provincial Bank, Wrexham
Shepheard, Mr. J. C. B	National Provincial Bank, Wrexham I Allington terrace, Hoole road
*Shone, Mr. W., F. T.S	Unton park
Shone, Mrs	• ,, ,,
Shone, Mrs. Shone, Mr. Wm., Junr. Shrubsole, Mr. Alfred	• 99 99
Shrubsole, Mr. Alfred	Town Hall Square
Siddall, Mrs.	• ,, ,,
Siduali, Miss Annie	. 12 12
Siddall, Miss G. M	• ,, ,,
Siddall, Mr. W. Simpson, Mr. C.	Kilmorey park Chester
Simpson, Mr. Ricardo	Elsinore, Curzon park
Sitwell, Mrs	
Smith, Mr. T.	Blacon Point, Chester
Smith, Mr. T. Smith, Mrs. S	. 16 Nicholas street
Smith, Miss H	. 3 Chichester street
Smith, Mr. John	. Market square
Smith, Miss	. 25 Chester street, Saltney
Smith, Mr. R. J.	. Aldford, Chester
Smith, Mr. T.	. 73 Bouverie street
Smyth, Miss Lyle	Barrowmore Hall, near Chester
Sparling, Rev W., M.A	. Opton vicarage, Chester
*Spencer, Mr. J. H	8 Factors nathway
Spencer, Mr. S. Stanyer, Mr. William	20 Newgate street
Stewart, Mrs	13 Stanley place
*Stolterfoth, Dr., M.A., J.P	. I Grev friars
Stolterfoth, Mrs	. ,, ,,
Stolterfoth, Mrs	, ,,
Storr, Mr. F	. 21 The Groves
Storr, Miss	
Storrar, Mr. Jas. M.R.C.V.S.	.4 Park street
Storrar, Miss Jessie	

,	Durantinian Chichester etweet
	Storrar, Mr. Andrew
*5	Strahan, Mr. Aubrey, M.A., F.G.S. Jermyn street, London, S.W.
5	Sutcliffe, Miss Emily B 10 Lorne street
- 5	Catlock, Rev. Canon21 St. John street Caylor, Mr. Hy. Enfield, J.P., M. Inst. C.E. Grey friars
	Caylor, Mr. Hy. Enheld, J.P., M. Inst. C.E., Grey triars
	Faylor, Mr. J., F.R.C.S., J.P Haygarth House, Newgate street
,	Taylor, Mr. J. G , , , , , , , , , , , , , , ,
,	Caylor, Mr. John Hoole Hall Gardens
	Taylor, Mr. A. G
	Caylor, Mr. J. Burnside4 Hough green
- 1	Taylor, Mr. Hy., F.S.A 12 Curzon park
	Caylor, Mrs. J. W
	Taylor, Mrs. G 11 Bold square
	Thomas, Mr
	Thomas, Miss, , , , , , , , , , , , , , , ,
	Thomas, Miss Constance,
	Thomas, Miss F. M, ,, ,,
1	Thomas, Miss F. M, ,, Thomas, Mr. Maurice27A Tarvin road
- 3	Thomas, Mr. FelixTarvin road Thomas, Mr. E. HThe Industrial Schools, Boughton
	Chemist Westergets street
	Thomas, Mr. W. C. 18 Northgate street
	Thomas, Mr. J. H
,	Thompson, Mr. HyBrightholme, Curzon park
	Thompson, Mrs , , , ,
	Thompson, Mrs
	Thornthwaite, Miss E. Mc/o Mrs. Hincks, Northgate street
ĺ	Filston, Miss I King's buildings
	Finkler, Mr. G
	Tomkinson, Mr. Jas., J.P. Willington Hall, Chester Tomlin, Mrs. Thorpe villa, Liverpool road
	Tomlin, Miss Lilian Ethel ,, ,,
	Tomlin, Miss Edith Clarabel ,,
	Tomlin, Miss Edith Clarabel ,, ,, Townshend, Mr. C. W., J.P Trevallyn, Wrexham
	Trafford, Mr. A14 Crane street
	Trelawny, Mr. H. D., J.P Shotwick park, Chester
	Trelawny, The Hon. Mrs
	Tyler, Mis. Amed tas tewton, Onester
*	Vincent, Mr. W Eaton road
	Vincent, Mrs,
	Wakefield, Mr Newton Hall Lodge
	Wakefield, Mr. T Lorne street
	Wakefield, Mr. T
*	Walker, Mr. A. O., J.P., F.L.SNant-y-Glyn, Colwyn Bay
	Ward Miss
	Walker, Miss 23 Liverpool road Ward, Miss 18 Eaton road Watts, Mr. C. T. F. Grosvenor Museum
	Way, Mr. N. A. E Stamey street
	Weaver, Mr. W. MWestminster buildings

Weaver, Mr. Thos	Fern Cottage, Christleton
*Webster, Mr. G. Watmough, F.O.	C.SBrook Lodge, Brook lane
Webster, Mrs.	• 11 11
Webster, Mr. Sirrell M	. ,,
Webster, Miss Amy B	30 St. Martin's-in-the-fields
Wells, Mr. E.	Eccleston, Chester
Wells, Mr. George J. J., F.I.C.,	F.C.S 47 Parkgate road
White, Miss E	. 13 Abbey street
Whiteley, Mr. F	Helsby, Warrington
Wigg, Mr. Charles	Hoole hank Chester
Wigg, Mr. Walter J	Lea Hurst Hoole road
Wilbraham, Miss E.	
Wilhraham Miss F	. 5 reing 5 buildings
Wilbraham, Miss F	26 Newgate street
Wilkinson, Mr. R.	40 Cambrian view
Williams, Mr. J. E	Westmington buildings
Williams, Mr. John	
Williams, Mr. A. C	
Williams, Rev. J. R., M.A	. Fullord Rectory, Wrexnam
Williams, Miss	72 Tarvin road
Williams Mr. R. J	
Williams, Miss Aldersey	
Williams, Rev. John	.4 Cheyney road
Williams, Mr. G. C.	11 11
Williams, Mr. James	Egerton House, Hoole road
Wiseman, Mr. C.	The Poplars, Dee banks
Wiseman, Mr. Henry	*
Wood, Mr. R. Stewart	Eccleston, Chester
Wood, Miss	.28 Queen street
	. c'o Mrs. Williams, 2 Nicholas street
Wood, Mrs. A	c/o Miss Tilston, I King's buildings
Woodfin, Miss	26 Lorne street
Woodhouse, Mr. John	.7 Raymond street
Wrench, Miss	Green lane, Tarvin road
Wright, Mr. A. I.	II Bridge street row
Wright, Mrs	
*Wynne, Mr. Geo. F	Plas Gwyn, Minera, Wrexham
Wynne, Mr. J. H.	
Wynne, Mr. John	Waverton, Chester
, , , , , , , , , , , , , , , , , , , ,	, 02000



Yeadon, Mr. Thos.28 St. Anne street

*** As a New Edition of the Catalogue of Books in the Society's Library will shortly be published, the usual list of recent additions has been omitted from this Report.

THE LIBRARY

IS OPEN TO THE MEMBERS DAILY FROM 10 A.M. TO 5 P.M.; AND ON THURSDAYS DURING WINTER FROM 10 A.M. TO 8 P.M.

The Fourth Yolume of Proceedings is now ready, and may be obtained by any Member of the Society on application to the CURATOR, at the Grosvenor Museum; price 5/-.

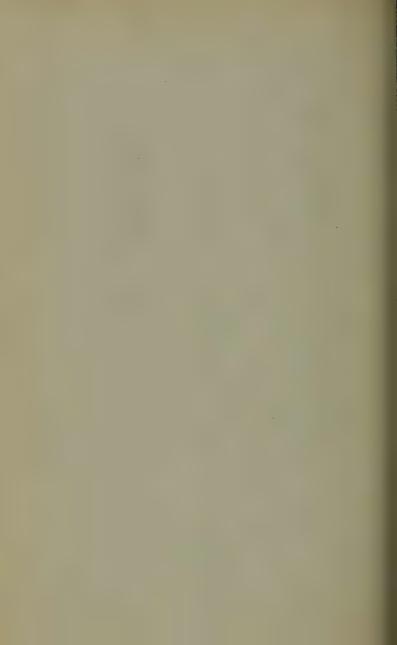
Copies of Volumes II. and III. may still be obtained at the Museum; price 2/6 each.



CHESTER:

G. R. GRIFFITH, PRINTER, GROSVENOR STREET.









CHESTER

Society of Patural Science & Literature

(Founded by Charles Kingsley, 1871.)

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STATE OF THE PARTY
TWENTY-FIFTH

ANNUAL REPORT

AND

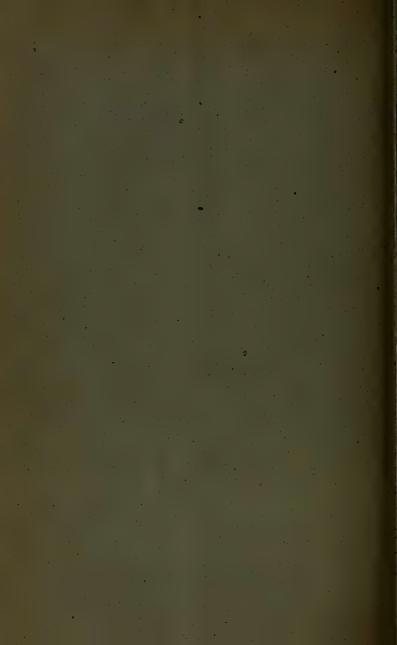
STATEMENT OF ACCOUNTS,

FOR THE YEAR 1895-96.

CHESTER

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MINCCCYCVI



CHESTER SOCIETY

OF

NATURAL SCIENCE AND LITERATURE

(FOUNDED BY CHARLES KINGSLEY, 1871.)

TWENTY-FIFTH

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS FOR 1895-96,

AND THE

LIST OF MEMBERS FOR 1896-97;

ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR COMPETITION, &c.

CHESTER:

PRINTED BY G. R. GRIFFITH, "THE CASTLE" PRINTING WORKS.

MDCCCXCVI.



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Vice=Presidents:

HIS GRACE THE DUKE OF WESTMINSTER, K.G.

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Bon. Librarian :

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AND

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Rev. J. L. BEDFORD, M.A., F.L.S.

DR. KING.
MR. F. W. LONGBOTTOM.
MR. E. W. OKELL.

mon, Huditors:

MR. BERESFORD ADAMS. MR. C. R. ENOCK.

Curator and Assistant=Librarian :

MR. R. NEWSTEAD, F.E.S., The Grosvenor Museum.

RULES.

1.—That the Title of this Society be "The Chester Society of Natural Science and Literature," and that its objects be the promotion of the study of Natural Science by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2.—That the Officers be a President, Six Vice-Presidents, Treasurer, Three Secretaries, a Chairman and Secretary for each Section, and a Librarian.

3.—That the Committee consist of the above-named Officers, who shall be $Ex ext{-officio}$ Members, and Six other Members of the Society—the President or a Vice-President the Chairman; and that the practical management of the Society be vested in a Committee, subject to the following Rules:—

4 —That every Candidate for Membership shall be proposed and seconded at a General Meeting, and, on paying the Subscription, shall become a Member; the name of the Candidate, with that of a Proposer and Seconder, to be sent

(in writing) to the Committee previous to a General Meeting.

5.—That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year; and any person, duly elected, may become a Life Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members not to exceed Twenty-five.

7.—That each Member shall be allowed to introduce one non-resident friend at any of the General Meetings; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section, may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8. -That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the year.

That a majority of two-thirds present at any General Meeting shall have the power of expelling any Member whose conduct they deem objectionable.

10.—That the Committee shall meet monthly for the despatch of business:

Five Members to form a quorum.

11.—That the Committee shall arrange at least six General Field Meetings in the year. The place of Meeting to be fixed by the Committee, and due notice to be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether the Excursion shall be postponed or not.

12.—That the Committee shall arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No Paper shall be read without the previous sanction of the Committee. Objects of scientific interest may be exhibited at the Evening Meetings.

13.—That at the Aunual General Meeting which will be held in the month of April, the Officers and Committee of the Society, and two Auditors, shall be elected by ballot; the Report of the past year and the Treasurer's Financial Statement read and adopted; and alterations made, if needful, in the Rules. Nominations for the Committee and Auditors to be sent (in writing) to either of the General Secretaries, Six days beforehand; and proposed alterations of Rules at least a Fortnight beforehand. Alterations in the Rules shall be sanctioned by a majority of two-thirds of the Members present; and no alterations in the Rules shall otherwise be made.

ANNUAL REPORT.

In presenting their Twenty-fifth Annual Report, the President and Committee are glad to be in a position to say that during the past year the Society's work has been satisfactorily carried on, whilst the number of our ordinary Members remains about the same.

We shall miss from the list of our Honorary Members the distinguished name of the late Professor Huxley, for although he was never present at our Meetings, he always took a deep interest in the welfare of the Society; every true lover of science will regret the death of so gifted a votary, and whose reputation was world-wide. We have also to record the death of another distinguished Honorary Member in The Right Hon. Lord de Tabley, a most able botanist, who did much good work in connection with science in his own County of Cheshire; he had frequent intercourse with many of our working members. The names of both these gentlemen appear in the first list of Honorary Members published in 1871.

From among our own number we record with deep regret the loss of our esteemed Treasurer, Mr. John Mills. He was known to all our members for his uniform kindness and courtesy, and he will be long remembered amongst us, as one whose admirable business capacity made him a valued officer of the Society. His advice and opinion was always a great help to your Committee, whom he faithfully served for nearly twenty-one years.

The financial position of the Society will be placed before you, and a Treasurer will have to be appointed.

A new Catalogue of the Books of the Society has been prepared by the Assistant-Librarian, and this cannot fail to be of great service to the Members. It is also under consideration to set aside another room for the purpose of the Museum Library; if this is arranged it will no doubt be more convenient to those Members who visit the Museum to consult Books of Reference.

The Natural History Museum is in good order, and is being continually improved by the never-failing energy of our valued Curator, Mr. ROBERT NEWSTEAD, F.E.S.

A Report of the Kingsley Memorial Fund will be presented by the Hon. Treasurer, Mr. E. J. BAILLIE.

The general work of the Society is comprised under the following heads:—Excursions, Evening Field Meetings, General Lectures, Annual Conversazione, Sectional Meetings, and Free Courses of Lectures.

EXCURSIONS.

1895.	
May 30th	Rhydymwyn and "The Leet."
June 28th	Arenig Fawr.
July 24th	Vale Royal.
Sept. 18th	Locomotive and Steel Works, Crewe.
1896.	
Feb 24th	Salmon Hatchery Trevor

Owing to bad weather the Excursion to Arenig Fawr had to be abandoned, much to the regret of many of our members. It is to be hoped that in the coming season we may be more fortunate in the matter of weather, and we trust that our younger members will endeavour to make themselves better acquainted with the neighbourhood of the City. Real work depends greatly on our knowledge of the country locally, and this is much aided by our Excursions.

EVENING FIELD MEETINGS.

τ8	95.	
July	3rd	Eaton Gardens.
,,	17th	Upton and Newton Nurseries.
	31st	Dee Iron Works, Saltney.

The Annual Conversazione was held on October 24th, 1895. It took place in the Grosvenor Museum (by the kind permission of the Management Committee), and was

a brilliant success, for only in the Museum can members be brought in close touch with the now most valuable collection of Local Natural History Specimens. The thanks of the Society are due to GEORGE WYNDHAM, ESO., M.P., for the very interesting Address he gave, pointing out the especial value and merits of the various exhibits. There were two other short Lectures given in the Theatre, one by Mr. J. HANMER HUTCHINGS on the "Revival of a Mediæval Art," the other by Dr. Sorby, F.R.S., on "Marine Objects," prepared and mounted by his new process; to both these Gentlemen we are greatly indebted. This was the first occasion since the completion of the building that the members of our Society had an opportunity of inspecting the Technical Schools, now open to our Citizens, and affording so many advantages and aids towards pursuing such necessary branches of education.

Our members, I am glad to say, contributed many interesting exhibits to the microscopical display, which is always attractive to the general public.

The following General Lectures were given during the past Winter:—

1895.

Oct. 31st—"On the Compound Eye of Insects," by the President (Dr. Stolterform.)

Nov. 28th--" The Life History of a Mountain," by Mrs. Leo H. Grindon. 1896.

Jan. 27th-"Other Worlds than Ours," by SIR ROBERT BALL, F.R.S.

Jan. 30th-" Typical Flora of the Earth," by MR. J. D. SIDDALL.

Feb. 26th—"Botanic Gardens—Past and Present," by Professor R. J. HARVEY GIBSON, M.A., F.L.S., of Victoria University, Liverpool.

Mar. 26th - "The New Photography and the X-Rays of Rontgen," by the Rev. A. H. Fish, B.A., B.Sc.

Mar. 28th—Ditto ditto (repeated by general desire)

Apr. 16th-"Leaf Fungi," by MR. W. T. HAYDON.

Apr. 30th—Annual Meeting, and Lecture—"The Electric Current and some of its Chemical Effects," by Mr. J. A. McMichael, B.A., B.Sc., Head-Master of the Technical Day School.

In no previous year has the attendance at these lectures been more encouraging. This, to a certain degree, is due to the interesting subjects selected, and

also to the ability of the Lecturers. The lecture by Sir Robert Ball was given in the Music Hall, which was filled by an enthusiastic audience, such as this renowned Lecturer can command; we hope to welcome him again next Autumn. Chester has in no way been behind the rest of the world in its interest in the New Photography, and we have been fortunate in having in our midst so capable an exponent as the Rev. A. H. Fish, B.A., B.Sc., who at no inconsiderable trouble and expense, was able to show and demonstrate all that is at present known on the subject.

The various Sections into which our Society is divided have all held meetings during the past Winter, and the Secretaries of Sections will present their respective Reports. Besides what has been already mentioned there have been two series of Free Lectures on "Zoology" and "Photography," intended as introductory to the study of these subjects. Although not exactly in the work of our Society, still under the auspices of your Committee, we gladly welcomed Miss Kingsley (the daughter of our great Founder), who gave us a Course of six Lectures on "French Painters and Pictures of the 19th Century." To those who had some previous knowledge of the subject the lectures were exceptionally valuable, and the very able and eloquent way in which the subject was treated made it attractive to all, and showed that the Lecturer had entered thoroughly into the spirit and character of her subject.

Members are reminded that an invitation from Liverpool has been accepted by the British Association to visit that City in 1896, and as our Society is on the list of Corresponding Societies of the Association it is hoped that during the coming Session each member will make an effort to increase the strength of the Society, and so bring its membership roll up to figures more worthy of its antecedents. It is proposed to hold the Annual Conversazione on Thursday, September 24th, on which

occasion a considerable number of the members of the British Association (including some of the leading Scientists of England and the Continent) are expected to be present.

Your Committee have met fifteen times during the past year for the purpose of transacting the business of the Society, and we trust that the members feel satisfied that during the past five-and-twenty years some steady progress has been made to advance the objects for which the Society was founded, and that those who direct its affairs have at heart the true interests of all the members.

The Committee desire to take this opportunity of thanking those members and friends who have added to the interest of the meetings by contributions of Papers and other communications of value, and by exhibiting at the Conversazione.

They also desire to record their thanks to donors of Books to the Library and Slides to the Cabinet.

HENRY STOLTERFOTH, M.A., M.D.,

APRIL 30TH, 1896.

Hon. Scientific Secretary.

ANNUAL MEETING, APRIL 30TH, 1896.

The President (Dr. Stollerfoth) in the Chair.

Resolved :-

"That the Annual Reports and the Statements of Account (now "submitted) be adopted, printed, and circulated among the "members of the Society."

The retiring PRESIDENT (DR. STOLTERFOTH) was unanimously re-elected to that office for the ensuing year;

Mr. John Simon was elected Honorary Treasurer, in the room of Mr. John Mills, deceased;

It was notified that the other officers remain as in the past year, no new nominations having been received;

The following were elected on the Committee for the ensuing year:—Rev. J. L. Bedford, Dr. King, Messrs. E. J. Baillie, J. Bairstow, F. W. Longbottom, and E. W. Okell;

The Rev. A. H. Fish, B.A., B.Sc., was nominated to receive the "Kingsley Memorial Medal" at the ensuing Annual Conversazione.

CURATOR'S REPORT.

IT will be seen by the following abstract there has been, during the past year, a considerable increase in the number of donations to the Society's Museum, due to the magnificent Herbarium of Dried Plants presented by Mr. T. A. COWARD. This collection was formed by the late Mr. T. COWARD, of Bowdon, and consists (for the most part) of Exotic Species; for this reason it is intended for the use of students in Botany, and for those who wish to extend their knowledge in plant-life beyond the Flora of the British Isles. The collection contains most valuable series of both interesting and rare plants, and will well repay a careful study. The whole collection has been overhauled, cleaned, and all the specimens labelled with the name of the donor, &c.; as there are over 16,000 specimens this has been no light task. The Hon. Secretary, Mr. G. R. GRIFFITH, kindly provided the 16,000 labels, to whom the best thanks of the Committee are due.

The donations to the Zoological Section have fallen off very considerably, partly due to the fact that your Curator has done comparatively little or no field work during the past year, owing to over-pressure of other matters.

ABSTE	ACT OF	тне В	EPORT.		Species Presented.	Total of Species.	Total of Specimens,
Botany				 	16,000	16,000	32,000
Coleoptera (Beetle	s)			 	30	30	45
Homoptera				 	1	I	I
Lepidoptera (Mot.	hs and	Butte	rflies)	 	19	19	52
Diptera (Two-win	ged F	lies)		 	I	I	I
Mollusca (Shells,	&c.)			 	18	18	112
Aracnida (Spider.	s)			 	1	I	ı ı
Pisces (Fish)				 	I	I	3
Aves (Birds)				 	43	43	44
Nests and Eggs				 	12	12	21
Mammalia				 	7	7	10
Geology				 	2	2	7
Miscellaneous				 			26
	Тот	AL	• •	 • •	16,135	16,135	32,323

In addition to the series of free Zoological Lectures held in the Museum, your Curator has also gratuitously given many illustrated lectures both in the City and the County.

Several loan collections have been granted to various Institutions for illustrating lectures and other purposes.

Mr. A. O. Walker still favours us with the loan of a valuable series of Reference Works; the President, Rev. A. H. Fish, Dr. W. H. Dobie, and Messrs. T. A. Coward, A. W. Lucas, and Chas. Oldham have also contributed to our requirements in this direction, and to whom we are gratefully indebted.

Your Curator is unable to conclude this Report without thanking those Members of the Society, and especially the President (Dr. Stolterfoth), for the kindly aid given in the preparation of the Lantern Slides which were used to illustrate the course of Zoological Lectures.

LIST OF DONORS AND ADDITIONS.

	ARACI	IIDA	(Spiders.)		~ .		
Mr. George Dutton	٠	••		••	Species. I	Spe	cimens. I
	AV	ES (Birds.)				
Mr. Boden					1 .	_	1
Lord Combermere					I	_	2
Mr. T. A. Coward					35		35
Mr. J. Lyon Denson					I		I
Dr. Herbert Dobie					I		1
Mr. J. W. Roberts	• •	• •	••		I	_	I
Mr. R. J. Smith	• •	• •	••		I	_	I
Mr. Jas. Tomkinson	• •	• • •	••	• •	2		2
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Mr. T. A. Coward				16	.000	_ 22	000

	COLEO	PTERA	(Beetl	es.)			
Mr. J. Arkle					Species.	Sp	ecimens.
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Dr. Herbert Dobie		••	**	• •	I	_	5
Mr. George Dutto		••	••	••	1		1
Miss C. E. Tomlin		**	• •	* *	I		4
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Mr. Leonard Noon		**	* *.	• •	I	-	2
Mr. Chas. Oldham	••	**	* *	• •	I	-	I
Mr. J. T. Pownall	••	• •	• •	• •	3	-	3
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Mr. H. Partin			••		15 I		
Mr. B. Tomlin			• •	* *	I	-	2
Mr. A. Newstead		••	• •	• •	ī		I
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Mrs. Pitcairn-Camp	bell				I	_	I
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Mr. H. Nicholson					10		16
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SECTIONAL REPORTS.

BOTANICAL.

During the past year there have only been two Lectures given in connection with this Section. The opening Lecture was on "Botanical Science in relation to Gardening and Forestry," by Mr. E. J. Baille, F.L.S., and, needless to say, was highly interesting and instructive. At this Meeting, Mr. G. P. Miln, who has acted so efficiently as Hon. Secretary of the Section for so long, tendered his resignation, as, since his appointment, he had other and more arduous duties given him by the Society.

MR. MILN was most heartily thanked for his services to the Section, and MR. A. E. GOODMAN elected as his successor in office.

The second Lecture was on "Micro-organisms," by MR F. V. Dutton, of the University College, Bangor, and was illustrated by microscopic specimens and pure culture growths of Bacteria. The apparatus and *modus operandi* of obtaining pure cultures were also clearly shown and illustrated. Both Lectures were followed by most interesting discussions.

We should especially like to call the attention of members to the magnificent Herbarium bequeathed to the Society by Mr. COWARD.

A. E. GOODMAN, Secretary.

APRIL 30TH, 1896.

ZOOLOGICAL.

A Course of Free Popular Lectures was delivered on alternate Thursday evenings. These Lectures were all beautifully illustrated by lantern slides, most of which were prepared specially by the Curator. The attendances were good, and the Lectures were much appreciated.

The following is a Syllabus of the Lectures: -

1895.

Nov. 7—"Relations of Zoology," by Prof. Herdman, D.Sc., F.R.S., 21—"Crustacea: Crabs, Lobsters, and Shrimps," by Mr. A. O. WALKER, F.L.S.

Dec. 5—"British and Foreign Scale Insects" , , 19—"British Birds: Autumn and Winter Migrants"

1896.

Jan. 2.—"British Birds: Spring Migrants"

,, 16.—"The Recent and Fossil Animals of
the British Isles"—with special
reference to those found in Cheshire
and North Wales

By Mr. R. Newstead, F.E.S.

W. F. J. SHEPHEARD,

APRIL 30TH, 1896.

Secretary.

GEOLOGICAL.

In consequence of the Courses of Lectures given by the Zoological and Photographic Sections during the past Session, there has been only one Meeting of this Section, on December 12th, when The Very Rev. Fr. Alphonsus, D.D., gave a very interesting Paper on "Primitive Man and his Habitations."

ALFRED W. LUCAS,

APRIL 30TH, 1896.

Secretary.

NATURAL, PHILOSOPHY.

A Paper, entitled "The Search for the Philosopher's Stone," was given by Mr. Francis Francis, B.Sc., Ph.D., on January 9th.

APRIL 30TH, 1896.

W. F. LOWE, Secretary.

PHOTOGRAPHIC.

By the desire of the Committee of the Natural Science Society, the Photographic Section devoted the Session of 1895-6 to a Course of Free Popular Lectures on Photography. The Lectures were delivered in the Theatre of the Grosvenor Museum, and were well attended. It is hoped that the interest created and the information imparted may lead to a considerable accession to the membership of the Section, and to the promotion of the Photographic Art in the city and neighbourhood. The Section desires to acknowledge its indebtedness to the gentlemen who, at considerable trouble and expense to themselves, willingly gave their services in this behalf.

Following is a list of the Lectures:—

Feb. 6th.—"Photography: Origin and History; Essentials and Possibilities," by MR. J. H. SPENCER.

" 20th.—"The development of the Photographic Image," by Mr. Charles A. Kohn, Ph.D., University College, Liverpool.

Mar. 5th.—"The Positive: Printing, with special reference to Bromide Paper and Lantern Slides," by Mr. E. G. BALLARD, A.R.S.M., F.I.C.

", 19th.—" Micro-Photography: the Apparatus required; the taking of the Negative; and various forms of reproducing both Lautern Slides and Prints," by Dr. Stolterfoth, M.A.

April 9th-"Celestial Photography," by MR. F. W. LONGBOTTOM.

", 23rd—"Composition," by Mr. W. G. SCHRÖDER, Head-Master Chester School of Art.

STATEMENT OF ACCOUNT.

RECEIPTS.	PAYMENTS.
To Balance $\overset{\cancel{5}}{0}$ 6 $2\frac{1}{2}$ Subscriptions 0 17 6	By Photographic Papers, 39 weeks at 4d. per
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J. H. SPENCER,

APRIL 30TH, 1896.

Secretary.

LITERATURE.

On January 23rd, a Paper was read by the Secretary on "Some Obstacles and Inducements to the study of Literature." There has been no other meeting of the Section.

ARTHUR H. FISH,

Secretary.

APRIL 30TH, 1896.

ASTRONOMICAL.

With the exception of Sir Robert Ball's Lecture, the Astronomical Section has confined itself to private meetings amongst its working members. This has seemed advisable in view of the special Popular Lectures delivered in the Photographic Section.

Observational Astronomy has been somewhat hindered by the unpropitious state of the atmosphere during the winter, whereby the Section has fallen short of new material to lay before its patrons; but as the workers are now fully occupied we are looking forward to greater public usefulness in the coming Session.

SIR ROBERT BALL'S Lecture naturally stimulated interest in Astronomical subjects, and his return visit in the Autumn of this year will doubtless be an additional incentive in this direction.

HERBERT DOBIE, M.D.,

Secretary.

APRIL 30TH, 1896.

MICROSCOPICAL.

THE PRESIDENT (DR. STOLTERFOTH) gave an Address on "The Modern Microscope, with notes on the latest forms of Stand, Lenses, and Accessories," on February 13th.

J. D. SIDDALL, Secretary.

APRIL 30TH, 1896.

PAXTON SOCIETY.

THE usual Course of Saturday Evening Meetings have been held during the Session, at which the following Papers were read to the Members, who continue to attend the Meetings in increasing numbers; the attendance this Session shewing a marked improvement upon any previous one:—

1896.

Jan. 11—"Typical Floras of the Earth," Illustrated by a series of Lantern
Pictures of the Vegetation of Great Britain, Canary Islands,
Holy Land, Japan, Australia, Mexico, California, &c., by
Mr. J. D. SIDDALL.

" 25-"Fruit and Chrysanthemum Exhibitions," by MR. N. F. BARNES.

Feb. I-" Soils and their Treatment," by Mr. WATERMAN.
"15-" Fruit Culture under glass," by Mr. J. J. CRAVEN.

Mar. 7—"The Carnation," by Mr. J. WYNNE FFOULKES.

,, 21-"Neglected Rural Industries," by Mr. J. WYNNE.

April 4-"The Cultivation of Primulas in Pots," by Mr. B. Moore.

" 18-" Notes on the Culture of Apricots, Peaches, and Nectarines," by MR. JOHN TAYLOR.

A considerable number of new names have recently been enrolled as Members; now making the combined list of Members and Subscribers up to nearly 250.

A very lively interest continues to be taken by the Members in all branches of Horticulture, as well as in the Annual Fruit and Chrysanthemum Exhibition held under the auspices of this Society. This Exhibition last year far exceeded any previous one, both in the number and quality of exhibits; and it was admitted by competent judges to be the finest exhibition of its kind held in the Provinces.

At this Exhibition the question of a Summer Horticultural Show and Fête was mentioned, and afterwards warmly supported by several influential gentlemen, with the result that a monstre Show and Fête, on the lines of the great yearly gatherings at York and Shrewsbury, will be held on the Roodee on 5th and 6th August next.

N. F. BARNES, President. G. P. MILN, Secretary.

APRIL 30TH, 1896.

NOTE.—The Annual Fruit and Chrysanthemum Exhibition will be held in the Town Hall, Chester, on 17th & 18th November, 1896. Schedules of Prizes and all particulars may be had on application to the Hon. Secretary.

The Hon. Treasurer in account with the Chester Society of Natural Science and Literature, for the Year ending April 30th, 1896.

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30TH MAX, 1896- He certify the above Statement to be a correct abstract from the Books and Accounts of the Honorary Treasurer, and that it is duly vouched, C. R. ENOCK, C.A., BERESFORD ADAMS, HON. AUDITORS.

JOHN SIMON, HON. TREASURER.

"KINGSLEY MEMORIAL" FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1896.

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10TH APRIL, 1896 - Audited and found correct,

EDMUND J. BAILLIE, HON. TREASURER.

PAST PRESIDENTS.

1871 to 1875—Rev. Charles Kingsley, Canon of Chester (Founder of the Society.)
1875,, 1891—Prof. T. McKenny Hughes, F.R.S.
1891-2 Alfred O. Walker, Esq., J.P., F.L.S.
1892-3 His Grace the Duke of Westminster, K.G.
1893-4 W. M. Dobie, Esq., M.D., J.P., F.R.A.S.
1894-5 W. M. Dobie, Esq., M.D., J.P., F.R.A.S.

KINGSLEY MEMORIAL MEDAL,

ESTABLISHED 1877,

"For having contributed materially to the promotion and advancement of some branch or department of Natural Science."—Vide Trust Deed,

1877—MRS. CHAS. KINGSLEY (In Memoriam)
1878—JOHN PRICE, M.A.
1879—SIR PHILIP DE MALPAS GREY-EGERTON, BART., F.R.S.
1880—PROF. T. MCKENNY HUGHES, F.R.S.
1881—D. MACKINTOSH, F.G.S.
1882—ISAAC BYERLEY, M.R.C.S., F.L.S.
1883—GEORGE W. SHRUBSOLE, F.G.S.
1884—ALFRED OSTEN WALKER, F.L.S.
1885—JOHN DAVIES SIDDALL.
1886—HERRY STOLITERFOTH, M.A., M.D.
1887—WILLIAM SHONE, F.G.S.
1888—THOMAS SHEPHEARD, F.R.M.S.
1889—THOS. RUDDY.
1890—REV. CHAS. WOLLEY-DOD, M.A.
1891—ROBERT NEWSTEAD, F.E.S.
1892—OSMUND W. JEFFS.
1893—EDMUND J. BAILLIE, F.L.S.

1894-W. MURRAY DOBIE, M.D.

KINGSLEY MEMORIAL PRIZES,

ESTABLISHED 1877,

"For the reward, encouragement, and the advancement of the pursuit and study of Natural Science."—Vide Trust Deed.

1879—GEORGE SHRUBSOLE 1881—E. HOPKINS	5 5 10 10	Cryptogamous Plants.
1888—LILIAN E. TOMLIN	5 5 }	Coleoptera. Diptera and Hymenoptera (Terebrantia.) Coleoptera.
1890—ALFRED J. NIXON 1892—W. E. SHARP	10	Land and Fresh-Water Shells.

KINGSLEY MEMORIAL PRIZES.

Open to any Resident within the Society's District.

The following is a list of the Prizes offered by the Committee for competition:—

1896.

A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above Prize, the Committee have decided that, in order to encourage scientific research, they will make Grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

* All Collections must be made in Cheshire or North Wales, or the Seas adjoining thereto, by the persons competing.

The Collections, Essays, or Notes of Observations, may be sent in to either of the General Secretaries at any time, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

Intending Competitors can obtain all particulars, and the Conditions under which the Prizes are offered, from either of the General Secretaries; and all Collections, &c., must be sent in to either of them on or before the 1st September in each year.

SOCIETIES ASSOCIATED,

WITH WHICH THE SOCIETY EXCHANGES PUBLICATIONS.

Academia Nacional de Ciencias de la Republica Argentina, Cordoba.

Barrow Naturalists' Field Club.

Brighton and Sussex Natural History Society.

Bristol Naturalists' Society.

British Association (Corresponding Society's Committee.)
British Museum (Natural History), Cromwell Road,
London, S.W.

Burnley Literary and Scientific Club.

Cardiff Naturalists' Society.

Cassel Society of Natural Science.

Dudley and Midland Geological and Scientific Society and Field Club.

Epping Forest and County of Essex Naturalists' Field Club. Glasgow Natural History Society.

Hortfordshire Natural History Society,

Hertfordshire Natural History Society and Field Club.

Huddersfield Naturalists' Society.

La Société d'Histoire Naturelle de St. Wladimir á Kiew, Russie.

Leeds Naturalists' Club.

Liverpool Geological Society.

Liverpool Geological Association.

Liverpool Literary and Philosophical Society.

Liverpool Microscopical Society. Liverpool Naturalists' Field Club.

Liverpool Science Students' Association.

Manchester Field Naturalists' Society.

Manchester Geological Society.

Manchester Microscopical Society. Menai Society of Natural Science.

Northampton Natural History and Field Club.

North Staffordshire Naturalists' Field Club and Archæological Society.

Norwich Science Gossip Club. Nottingham Naturalists' Society.

Patent Office Library, 25, Southampton Buildings, Chancery

Lane, London, W.C. Postal Microscopical Society.

Quekett Microscopical Society. Smithsonian Institution, Washington, D.C.

The Missouri Botanical Garden, St. Louis, U.S.A.

United States Geological Survey. Vatican Observatory, Rome.

Vienna Natural History Museum.

Wigan Literary and Scientific Society.

Yorkshire Naturalists' Union, Leeds.

HONORARY MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

*Ball, Sir Robert S., F.R.S	.Observatory, Cambridge
Barrett, Chas. G., Esq., F.E.S.	.39, Linden Grove, Nunhead, London,
	S.E.
*Carruthers, W., Esq., F.R.S	.The British Museum, South Ken-
2,1	sington, London, S. W.
*Dawkins, Prof. W. Boyd, F.R.S	Woodhurst, Wilmslow road, Fallow-
Dankins, 1101. W. 20ja, 111	field, Manchester
*Grindon, Leo H., Esq	.20, Cecil street, Greenheys, Manchester
*Hicks, H., Esq., F R.S.	Hendon Grove, Hendon, London,
HICKS, II., LOUI, I LOUI	N. W.
Hooker, Sir J. D., K.C.S I., F.R.S	. The Camp, Sunningdale, Ascot
*Hughes, Prof. T. McKenny, F.R.S.	Trinity College, Cambridge
*Hull. Prof., F.R.S.	.20, Arundel Gardens, London, W.
	Royal College of Science, South Ken-
*Judd, Prof. J. W., F.R.S	sington, London, S.W.
*Lubbock, Sir John, Bart, M.P., F.R.S	Down, Farnborough, Kent
*Morton, G. H., Esq., F.G.S.	209, Edge Lane, Liverpool, E.
Norman, Rev. Canon, F.R S.	Burnmoor Rectory, Fence Houses,
Norman, Nev. Canon, P.105	Durham
O. S. J. Mb. Land Dichon of	The Palace, Cuddesdon, Oxford
Oxford, The Lord Bishop of	Court Lodge, Birkenhead
*Rae, E., Esq., F.S.A	Curator of the Royal Museum of
Renard, The Abbé	Natural History, Brussels
D G' II II II D C	. 10, Bramham Gardens, London, S. W.
Roscoe, Sir Henry E., F.R.S.	Museum of Practical Geology, Jer-
*Rudler, F. W., Esq., F.G.S	myn street, London, S. W.
*	64, Banbury road, Oxford
Sanderson, Dr. Burden, F.R.S	
*Sorby, Dr., F.R.S	Broomfield, Sheffield
*Vize, Rev. J. E., M.A	Forden Vicarage, Welshpool

CORRESPONDING MEMBERS.

Askew, Mr. Jas. H.	Bidston Lighthouse, Birkenhead
Brodrick The Hon, Mrs. Lawrence	Coed Coch, Abergele
Compand Mr. T. A	Higher Downs, Bowdon
Griffith, Mr. J. E., F.L.S., F.R.A.S.	Vronheulog, Upper Bangor, N. W.
Joachim, Mr. Geo.	Dunedin Otago, New Zealand
Joachim, Mr. Geo.	Prondern Osmeetrn
Nicholson, Mr. A. C., F.G.S.	D' 11 Colored Chichesten
Nixon, Mr. A. J.	Biranam School, Chichester
Oldham, Mr. C.	Romiley, near Stockport
*Reade Mr Oswald A.	
*Rowston Mr. R.	Kingsley, Alton, Hanis
*Ruddy, Mr. Thos.	Palé, Corwen
Dancoll Dr	Colwan Day
Tomlin, Mr. J. R. le B., B.A.	Thorne Villa, Liverpool Road
Tomin, Mr. J. R. le D., D.A.	Howard Tenhu
Walker, Mr. Fred.	Heywood, Telloy
#William Ma T	(/Lioxeler
Williams, Mr. G. J., F.G.S.	H. M. Inspector of Mines, Bangor

NOTICE.

year. Members who have not paid for the present year are respectfully requested to forward the amount (Five Shillings) to the Hon. Treasurer, Mr. JOHN SIMON, Chemist, 4, Eastgate Row.

To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary according to Rule 8.

LIST OF MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

..... Grove road, Wrexham

21000005, 2211 0000 2	
Ainsworth, Miss F	4 Nicholas street
*Allen, Mr. Percy K	22 Lorne street
Appleton, Mr. John	Bouverie street
Archer, Mr. W. E.	5 Lightfoot street
*Arkle Mr T.	Diocesan School, George street
Arnold, Miss Margaret	Chevney road
Atkinson, Rev. Bernard N., M.	A Kalcall near Chester
Atkinson, Nev. Demard IV., M.	AIxcisan, near Chester
Dellas Ma II Count	Cumt Chambors
Bailey, Mr. H. Grant	
*Baillie, Mr. E. J., F.L.S	Woodbine, Upton
Baillie, Mrs	,,
*Bairstow, Mr. J., F.C.S	Burley, Queen's park
Baker, Miss	2 Grey Friars
*Ballard, Mr. E. G., A.R.S.M.	
Ballard, Mrs	10 Eastgate street
Barbour Mr Geo I P	Bolesworth Castle, Tattenhall
Darbour, Mr. Geo, J.L	Dolesworth Castle, Tattellian
Barbour, Mrs.	5)))
Barker, Mr. A	6 Abbey street
Barnes, Rev. F., B.A	Hope villa, Raymond street
Barraclough, Mr. E	9 Abbot's nook, Liverpool road
Barraclough, Mrs	11 11
Barrow, Miss	The Infirmary

Adams, Mr. Beresford Shirley House, Liverpool road Adams, Mr. Geo. F. Ashbourne, Victoria road

Acton, Mrs.

	40.57 .3
Bassett, Miss C. E	.68 Northgate street
Bough Mr A Comment	Newton Grange, Hoose
Danton My Geo	. Poregate street
*Bedford, Rev. J. L., M.A., F.L.S	. 10 Abbey square
Bedford, Mrs.	. 21 27
Bedford, Mrs	Diocesan Training College
Dilliam Mica Cortrado	Woodhank, Christleton road
Birch, Miss. Bird, Rev. W. R.	18 Upper Northgate street
Birch, Miss.	66 Bouverie street
Bird, Rev. W. R	. Messrs. Beckett & Co., Eastgate row
Bithell, Mr. W	City Wolle W
Blayney, Mr. A.	To Johann Vicenza Chechire
*Blogg, Rev. H. B., M.A.	
Blomfield, Admiral	
Blomneld, Admirai	Cross, London
Blower, Mr. T. B	. 6 The Groves
Dlawer Mr W	A. Williams' terrace, Hoole
Podon Mr Robt W	. Salanton Lodge, Chester
Bolland Mr Frank	. 23 Hough green
Bolland, Mr. Frank Bonnalie, Mr. G. S., L.D.S., R.	C.S Upton park, Chester
Donnalio Mrs	0.0
*Bonnalie Mr. Fredk. J., L.D.S.,	R C S / Abbey square
Bonnane Mr. Fredk. J., L.D.S.,	, 10.0.0.14 22000) 24
Bonnalie, Mrs.	. Pichmond place
Bowers, Mr. H. R., J.P.	2 Kichinona piace
Howers Wrs.	
Bowles, Mr. T. S	21 Raymond street
Box, Mr. Henry	46 Frodsham street
TO A COLUMN TO	Grove House, Larkhall Rise, Claphall,
Boyson, Miss Annie H	··) London, S.W.
Bradbury, Mr. R. P.	46 Frodsham street Grove House, Larkhall Rise, Clapham, London, S.W. Walmore, Dee banks
Bradbury, Mr. R. P	Walmore, Dee banks Rose Hill, Bowdon, Cheshire
Brassey, Miss	Rose Hill, Bowdon, Cheshire
Brassey, Miss	Rose Hill, Bowdon, Cheshire Curzon park
Brassey, Miss	Rose Hill, Bowdon, Cheshire Curzon park
Brassey, Miss	Rose Hill, Bowdon, Cheshire Curzon park
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Brassey, Miss	Rose Hill, Bowdon, Cheshire Curzon park
Brassey, Miss	Rose Hill, Bowdon, Cheshire Curzon park
Brassey, Miss. Brassey, Mr. Herbert Brassey, Mrs. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Miss L. E.	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park
Brassey, Miss. Brassey, Mrs. Herbert Brassey, Mrs. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Miss L. E. Brown, Mr. W., J.P.	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row
Brassey, Miss. Brassey, Mr. Herbert Brassey, Mrs. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Miss L. E. Brown, Mr. W., J.P. *Brown, Mr F. F., M.A. Brown, Miss Constance L	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row 59 Upper Northgate street
Brassey, Miss. Brassey, Mrs. Brassey, Mrs. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Miss L. E. Brown, Mr. W., J.P. *Brown, Mr F. F., M.A. Brown, Miss Constance L	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row 59 Upper Northgate street
Brassey, Miss. Brassey, Mrs. Herbert Brassey, Mrs. Herbert Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Miss L. E. Brown, Mr. W. J.P. *Brown, Mr F. F., M.A. Brown, Miss Constance L Brown, Miss Marion, Brown, Mrs. Sanuel	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row 59 Upper Northgate street 29 Liverpool road
Brassey, Miss. Brassey, Mr. Herbert Brassey, Mrs. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Miss L. E. Brown, Mr. W., J.P. *Brown, Mr F. F., M.A. Brown, Miss Constance L Brown, Miss Marion Brown, Mrs. Samuel Brown, Mr. G. Noël	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row 59 Upper Northgate street 29 Liverpool road 2 White friars
Brassey, Miss. Brassey, Mrs. Brassey, Mrs. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Miss L. E. Brown, Mr. W. J.P. *Brown, Mr. F. F., M.A. Brown, Miss Constance L Brown, Miss Marion. Brown, Miss Samuel Brown, Mr. G. Noël	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row 59 Upper Northgate street 29 Liverpool road 2 White friars Boughton Hall
Brassey, Miss. Brassey, Mrs. Brassey, Mrs. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Miss L. E. Brown, Mr. W. J.P. *Brown, Mr. F. F., M.A. Brown, Miss Constance L Brown, Miss Marion. Brown, Miss Samuel Brown, Mr. G. Noël	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row 59 Upper Northgate street 29 Liverpool road 2 White friars Boughton Hall
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Brassey, Miss. Brassey, Mrs. Brassey, Mrs. Brewer, Miss E. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Mr. W., J.P. *Brown, Mr. F. F., M.A. Brown, Miss Constance L Brown, Miss Constance L Brown, Miss Marion. Brown, Mrs. Samuel Brown, Mr. G. Noël Brownlow, Col., C.B. *Buckley, Mr. Wm. Ireland, F.I Bullin, Mr. F., J.P., L.D.S., F Bullin, Mr. F., J.P., L.D.S., F	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row 59 Upper Northgate street 29 Liverpool road 2 White friars Boughton Hall Bidston Rectory, near Birkenhead R.G.S.—The Academy, Winsford, Cheshire R.C.S 20 Nicholas street
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Brassey, Miss. Brassey, Mrs. Brassey, Mrs. Brewer, Miss E. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Mr. W., J.P. *Brown, Mr. F. F., M.A. Brown, Miss Constance L Brown, Miss Constance L Brown, Miss Marion. Brown, Mrs. Samuel Brown, Mrs. Samuel Brown, Mr. G. Noël Brownlow, Col., C.B. *Buckley, Mr. Wm. Ireland, F.J Bullin, Mr. F., J.P., L.D.S., F Bullin, Mrs. Bullin, Miss E.	Rose Hill, Bowdon, Cheshire Curzon park 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row 59 Upper Northgate street 20 Liverpool road 2 White friars Boughton Hall Bidston Rectory, near Birkenhead R.G.S. — The Academy, Winsford, Cheshire R.C.S 20 Nicholas street "" Hoole
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Brassey, Miss. Brassey, Mrs. Brassey, Mrs. Brewer, Miss E. Brewer, Miss E. Brewer, Miss Anne *Broadbent, Mrs. Brown, Mr. C., J.P. Brown, Mr. W., J.P. *Brown, Mr. F. F., M.A. Brown, Miss Constance L Brown, Miss Constance L Brown, Miss Marion. Brown, Mrs. Samuel Brown, Mr. G. Noël Brownlow, Col., C.B. *Buckley, Mr. Wm. Ireland, F.I Bullin, Mr. F., J.P., L.D.S., F Bullin, Mrs. Bullin, Mrs. Bullin, Mrs. Bullin, Mrs. Bullin, Mrs. E. Burges, Dr. R. Evans Burrell, Mr. T. G. Burrows, Mr. R. Butcher, Mr. Jas.	Rose Hill, Bowdon, Cheshire Curzon park """ 15 Paradise row Bache cottage The Folly, Flookersbrook 18 Curzon park Eastgate row 59 Upper Northgate street """ 29 Liverpool road 2 White friars Boughton Hall Bidston Rectory, near Birkenhead R.G.S.—The Academy, Winsford, Cheshire R.C.S 20 Nicholas street """ Hoole 119 Foregate street Railway Inn, Brook street 14 Union walk Vicar's Cross, Chester

Carr, The Hon. Mrs	. Richmond lodge, Boughton
Chalton, Mr. T. W	Wynstay, Hoole, Chester
Chalton, Mrs.	
Chalton, Mrs	42 Tarvin road
Chapman, Mr. W. R.	42 Tarvin road (@ Messrs. Stead & Simpson's, 11 Fore- ") gate street ord Bishop of The Palace Dee Side
*Cl · · · · · · · · · · · · · · · · · · ·	" (gate street
Chester, The reight recv. The L	ord Dishop of, The Talace, Dec Side
	. St John's Schools, Vicar's lane
Clemence, Mr. S	2 Unichester street
Clough, Miss	. Ashton House, New Crane street
Clough, Mr. G. F	2 Hough green
Clough, Mrs Cockrill, Mr. C. P.	Charter and Calture
Cockini, Mr. C. P.	Chester road, Saitney
	26 Lightfoot street, Bishopfields
Coe, Mr. Henry J.	4 Bold terrace
Collinge, Mr. James	Class Abas Calasser
Combe, Mrs	Gian Aber, Saitney
Combe, Miss	aboratory, Somerset House, London, W.C.
*Conner Mr. Dochfort E.I.S.	Linguage Hunter's Quan N.P.
*Connor, Mr. Rochfort, F.L.S Cooke, Mr. J. H	Panton House Hoole
Coppack, Mr. Chas.	
Coppack, Mir. Chas.	Cladwyn, Elverpoor load
Coppack, Miss	• • • • • • • • • • • • • • • • • • • •
Corder Miss Conder Miss Corder	St. Agnes' School, Caldy, West Kirby
*Cowan Mr C R	20 Granville road Cambrian view
Crum Mr W G I P	29 Granville road, Cambrian view Thornliebank, Glasgow
Cummings, Miss	King's Ruildings
Oummings, Milos	ILING 3 Dunuings
*Darhy Very Rev. I. I., D.D.	The Deanery
*Darby, Very Rev. J. L., D.D Davies, Miss Henrietta	
Davies, Miss Henrietta	69 Boughton
Davies, Miss Henrietta Davies, Mr. E. Henry	69 Boughton
Davies, Miss Henrietta Davies, Mr. E. Henry	69 Boughton
Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John	69 Boughton19 Francis street Parr's Banking Co., Chester
Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. John Davies, Mr. J. P.	69 Boughton19 Francis street
Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. J. P. Davies, Rev. Clement	69 Boughton 19 Francis street Parr's Banking Co., Chester 75 Crane street The Vicarage, Rhosesmor, Holywell
Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. J. P. Davies, Rev. Clement Davies, Miss	69 Boughton19 Francis street, , , , , , , , , , , , , , , , , ,
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Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. J. P. Davies, Rev. Clement Davies, Miss Day, Mr. John Denson, Mr. W. Denson, Mrs. Denson, Mrs. Adelaide Denson, Mr. J. Lyon Dickson, Mr. Geo, A. J. P.	69 Boughton19 Francis street79 Francis street75 Crane street76 Vicarage, Rhosesmor, HolywellSt. Michael's SchoolsBryntinion, Parkgate road21 Upper Northgate street, """
Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. J. P. Davies, Rev. Clement Davies, Miss Day, Mr. John Denson, Mr. W. Denson, Mrs. Denson, Mrs. Adelaide Denson, Mr. J. Lyon Dickson, Mr. Geo, A. J. P.	69 Boughton19 Francis street79 Francis street75 Crane street76 Vicarage, Rhosesmor, HolywellSt. Michael's SchoolsBryntinion, Parkgate road21 Upper Northgate street, """
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Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. John Davies, Mr. J. P. Davies, Rev. Clement Davies, Miss Day, Mr. John Denson, Mr. W. Denson, Mrs. Denson, Mrs. Adelaide Denson, Mr. J. Lyon Dickson, Mr. Geo. A., J.P. Dickson, Mrs. Dickson, Miss Lavinia Dickson, Miss Dickson, Mrs. S. J. R. Dickson, Mrs. V. Alfred	69 Boughton19 Francis street719 Francis street75 Crane street75 Crane street75 Lane street76 Lane street77 Lane street78 Lane street79
Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. John Davies, Mr. J. P. Davies, Rev. Clement Davies, Miss Day, Mr. John Denson, Mr. W. Denson, Mrs. Denson, Mrs. Adelaide Denson, Mr. J. Lyon Dickson, Mr. Geo. A., J.P. Dickson, Mrs. Dickson, Miss Lavinia Dickson, Miss Dickson, Mrs. S. J. R. Dickson, Mrs. V. Alfred	69 Boughton19 Francis street719 Francis street75 Crane street75 Crane street75 Lane street76 Lane street77 Lane street78 Lane street79
Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. John Davies, Mr. J. P. Davies, Rev. Clement Davies, Miss Day, Mr. John Denson, Mr. W. Denson, Mrs. Denson, Mrs. Denson, Mrs. Adelaide Denson, Mr. J. Lyon Dickson, Mr. Geo. A., J.P. Dickson, Mrs. Dickson, Mrs. Dickson, Mrs. Dickson, Mrs. J. R. Dickson, Mrs. S. J. R. Dickson, Mrs. W. Alfred Dickson, Mrs. W. Alfred Dickson, Mrs. W. Alfred Dickson, Mr. Guy Tritton *Dobie, Dr. W. M., J. P., F. R.A.	69 Boughton19 Francis street719 Francis street75 Crane street75 Crane street76 Wichael's Schools8ryntirion, Parkgate road21 Upper Northgate street79 Wichael's Schools8ryntirion, Parkgate road21 Upper Northgate street79 Wichael's
Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. John Davies, Mr. J. P. Davies, Mr. S. P. Davies, Miss Day, Mr. John Denson, Mr. W. Denson, Mrs. Denson, Mrs. Denson, Mr. J. Lyon Dickson, Mr. Geo. A., J.P. Dickson, Mr. Geo. A., J.P. Dickson, Miss Dickson, Miss Dickson, Miss Dickson, Miss Dickson, Mrs. W. Alfred Dickson, Mr. Guy Tritton *Dobie, Dr. W. M., J.P., F. R.A. Dobie, Miss Mabel	69 Boughton19 Francis street79 Francis street75 Crane street75 Crane street75 Lancing Co., Chester75 Crane street75 Crane street76 Crane street77 Crane street78
Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. John Davies, Mr. J. P. Davies, Mr. S. P. Davies, Miss Day, Mr. John Denson, Mr. W. Denson, Mrs. Denson, Mrs. Denson, Mr. J. Lyon Dickson, Mr. Geo. A., J.P. Dickson, Mr. Geo. A., J.P. Dickson, Miss Dickson, Miss Dickson, Miss Dickson, Miss Dickson, Mrs. W. Alfred Dickson, Mr. Guy Tritton *Dobie, Dr. W. M., J.P., F. R.A. Dobie, Miss Mabel	69 Boughton19 Francis street79 Francis street75 Crane street75 Crane street75 Lancing Co., Chester75 Crane street75 Crane street76 Crane street77 Crane street78
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Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. John Davies, Mr. John Davies, Mr. John Davies, Mr. J. P. Davies, Mr. J. P. Davies, Miss Day, Mr. John Denson, Mr. W. Denson, Mr. W. Denson, Mr. J. Lyon Dickson, Mr. J. Lyon Dickson, Mr. Geo. A., J.P. Dickson, Mr. S. Dickson, Miss Dickson, Miss Dickson, Miss Dickson, Mr. S. J. R. Dickson, Mr. S. J. R. Dickson, Mr. S. J. R. Dickson, Mr. Guy Tritton *Dobie, Dr. W. M., J.P., F. RA. Dobie, Miss Mabel Dobie, Miss Mildred. Dobie, Mr. Douglas *Dobie, Mr. Douglas	69 Boughton19 Francis street79 Francis street75 Crane street75 Crane street76 Line street76 Line street77 Line street77 Line street78 Line street79 L
Davies, Miss Henrietta Davies, Mr. E. Henry Davies, Mr. Joseph Davies, Mr. John Davies, Mr. John Davies, Mr. J. P. Davies, Rev. Clement Davies, Miss Day, Mr. John Denson, Mr. W. Denson, Mrs. Denson, Mrs. Denson, Mrs. Adelaide Denson, Mr. J. Lyon Dickson, Mr. Geo. A., J. P. Dickson, Mrs. Dickson, Mr. G. J. R. Dickson, Mr. G. J. R. Dickson, Mr. G. J. R. Dickson, Mr. Guy Tritton *Dobie, Dr. W. M., J. P., F. R.A. Dobie, Miss Mabel Dobie, Miss Midlred Dobie, Mr. Douglas *Dobie, Mr. W. H., M. B. Dobie, Dr. W. H., M. B. Dobie, Dr. W. H., M. B. Dobie, Dr. Herbert	69 Boughton19 Francis street79 Francis street75 Crane street75 Crane street76 Line street76 Line street77 Line street77 Line street78 Line street79 L
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Dodd, Mr. W143 St. Anne street
Dodd, Mr. John60 Cambrian crescent
Dodds, Miss M. Evelyn Thornleigh, Hough green
Dowdall, Lieut. Col. A. P Curzon park
Dowdall, Miss A, ,, ,,
Dowdall, Miss A
Duckworth, Mr. Winfryd Lawrence H., M.A Jesus' College, Cambridge
Duff, Dr 5 Abbey street
Dutton, Mr. George, J.PCurzon house
Dutton, Mrs, "," Dutton, Mr. H. BFreshfield, 27 Curzon park
Dutton, Mr. H. BFreshfield, 27 Curzon park
Dutton, Mrs
*Dutton, Mr. F. V University College of North Wales, Rangor
Dutton, miss m stough given
Dye, Mr. Alfred B
Edwards, Mr. J
Edwardes, Miss Kate36 Sealand road
Eggers, Miss 4 Hough green
Elliott, Dr. John, B.S., B.ScWhite Friars lodge
Elliott, Miss,
Enock, Mr. C. R 15 Hough green
Enock, Mrs ,,
Evans-Lloyd, Col., J.PStanley house
Evans-Lloyd, Col., J.P Stanley house
*Evans, Mr. FThe Eastgate
Evans, Miss
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Evans, Miss J. E. The Limes, 5 Lumley road Ewing, Mr. C. A. 3 Brookside villas, Flookersbrook
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Ewing, Mr. C. A
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Gardner, Mrs. W. A	Redland House, Hough green
Gardner Miss	11 11 11 11
Gardner, Miss	
Gardner, Mr. E	o Abbey street
Garnett, Mr. W. Garnett, Mrs	Strathallan, Mickle Trafford
Garnett, Mrs	The Rectory, Christleton
Gibson, Mr. J. M.	Buckley, via Chester
Gibson, Miss	5 Crane street
Gibson, Miss	South view, Eaton road
Gilbert, Mr. Leonard, J.P.	Egerton villa, Liverpool road
Gilbert, Mr. Egerton	. 132 Overleigh road, nandbridge
Gilbert, Mrs	,, ,, ,,
Giles, Mr. E S	Gowymede, Vicar's Cross
Giles Mrs.	
Glascodyne, Miss	, 11 Cambrian view
Golton, Rev. J. E	.53 Bouverie street
Golder Mr. S.	. 41 Liverpool road
Goodman, Mr. A. E	Fern Bank, Flikin's lane
Goodhart, Mrs. E. S.	ob Watergate flags
*Granger, Mr. F. M., M.R.C.S.,	L.R.C.P 18 Nicholas street
Grantham, Rev. H	S. Mary's Rectory
Gray, Miss	.4 Lorne street
Greenhouse, Mr. Chas	, I Eversley park
Griffith, Mr. G. R	, 30 Hough green
Griffith, Mrs	• 59 '59
Griffith, Miss	• 99 99
Griffith, Miss	TT - 11 TTle
Griffiths, Mr. Jno	Hamilton street, Hoole
Griffiths, Mrs	A XI-II- Paula Ousan's navis
Griffiths, Miss	2, Hony Dank, Queen's park
Griffiths, Mr. John	. 27 27
Griffiths, Mr. John*Griffiths, Rev. T. Turner, M.A. Gunton, Miss	Dimmorefold ""
Gunton, Miss	. Kimmersheid
Tr. I Isaba Ma C. D	6 Ach grove
Haddacks, Mr. C. R *Hall, Mr. J. H. A	
*Hall, Mr. J. H. A. Hall, Mrs. Hall, Miss Cecile Hall, Miss Josephine	. Montrose frouse, frough green
Hall, Mrs	
Hall, Miss Cecile	• • • • • • • • • • • • • • • • • • • •
Hamal Miss Josephine	Staunton House, near Coleford, Gloucester
Hamilton, Mr. A., M.R.C.S	16 White friats
Hamilton, Mr. A., M.K.O.J	, to trace mass
Hamilton, Mrs	Halkyn road, Flookersbrook
Hardy Mr I F	The Blue Coat School, The Northgate
Harnaman, Mr. J. M.	Alvanley, Warrington
Harris, Mr. T.	. Dee hills park
Harris Mrs.	
Harrison, Miss	13 Chichester street
Harrison, Mr. N.	Highfield, Curzon park
Harrison, Mrs.	. ,, ,,
Harrison, Mrs	Queen's park
Handerson Mr I F	to Pathway, Queen's park
Henshaw, Mr. T.	.The Hollies, Liverpool road
Henshaw, Miss Edith E	. ,,
Henshaw Miss Florence M	
Henshaw, Mr. T. A	. 27 Halkyn road, Hoole

Triumal Mina	0 [Tauah
Heppel, Miss	8 Hough green
Heppel, Miss M. E.	
Hewitt, Mr. David L	Abbey House, Northgate street
Hickman, Mr. F. F	8 Northgate street
Hickman, Miss	17 The Groves
Higgins, Miss Eva	The Manor, Overleigh
Higgins, Miss Millie	
Hignett, Mrs	14 Hough green
Hignett, Mr. A. H.	
Hignett, Mrs. T. H	18 Hough Green
Hincks, Mr. H. T.	61 Northgate street
	Alexandra Villa, Liverpool road
Hobday, Mr. E	
Hobday, Mr. Jas., B.A.	22 The Groves
*Hodges, Mr. W.	21 Hough green
Unders Mr T D	31 Hough green
Hodges, Mr. T. R. Hodges, Miss A. G.	• • • • • • • • • • • • • • • • • • • •
Houges, Wiss A. G	or D
Hodkinson, Mr. E Holland, Miss A. E.	35 Pepper street
Holland, Miss A. E.	2 Eversley park
Holland Miss S. L.	• • • •
Holland, Miss A. M.	
Holme, Rev. Canon, M.A	Great Budworth, Northwich
Holmes, Mr. J. G	Belmont, Curzon park
Hopkins, Mrs	32 Queen street
Hopkins, Mr. T., M.B	60 Watergate street
Hopkins, Mrs.	
Hopley, Mr. J. H.	Chemist, Northgate street
Hostage, Mr. George B	28 Eaton road
Treaten Miss	an Total world
Hostage, Mrs	Faerton House Unner Northaate street
Howson, Rev. J. F., M.A.	Egerton House, Upper Northgate street
Howson, Rev. J. F., M.A.	Egerton House, Upper Northgate street
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Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M Howson, Rev. G. J., M.A.	Egerton House, Upper Nortngate street " " " The Vicarage, Crewe
Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M Howson, Rev. G. J., M.A. Hudson, Mrs. R. S.	Egerton House, Upper Nortngate street The Vicarage, CreweBache Hall, Chester
Howson, Rev. J. F., M.A. Howson, Miss M Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny	Eache Hall. Chester 18 Hills road, Cambridge
Howson, Rev. J. F., M.A. Howson, Miss Howson, Miss M Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mrs.	Egerton House, Upper Nortngate street
Howson, Rev. J. F., M.A. Howson, Miss Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mrs. Hughes, Mr. John	Egerton House, Upper Nortngate street
Howson, Rev. J. F., M.A. Howson, Miss M Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mrs. Hughes, Mr. John Huke, Mr. J. W.	Egerton House, Upper Nortngate street " " " " " " " " " " " " Bache Hall. Chester 18 Hills road, Cambridge Uffington House, Dee Hills 47 Victoria street, Westminster, London Foregate street
Howson, Rev. J. F., M.A. Howson, Miss M Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mrs. Hughes, Mr. John Huke, Mr. J. W Humberston, Miss	Egerton House, Upper Nortngate street " " " " " " " Bache Hall. Chester 18 Hills road, Cambridge Uffington House, Dee Hills 47 Victoria street, Westminster, London Foregate street Newton Hall, Chester
Howson, Rev. J. F., M.A. Howson, Miss M Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mrs. Hughes, Mr. John Huke, Mr. J. W. Humberston, Miss. Humphreys, Mr. E. Noel	Egerton House, Upper Nortngate street "" The Vicarage, Crewe Bache Hall, Chester 18 Hills road, Cambridge Uffington House, Dee Hills 47 Victoria street, Westminster, London Foregate street Newton Hall, Chester 9 and 11 Old Bank Buildings
Howson, Rev. J. F., M.A. Howson, Miss M Howson, Rev. G. J., M.A. Hudson, Mrs. R. S. Hughes, Mrs. McKenny Hughes, Mrs. Hughes, Mr. John Huke, Mr. J. W. Humberston, Miss Humphreys, Mr. E. Noel	Egerton House, Upper Nortngate street " " " " " " " " " " " " Bache Hall. Chester 18 Hills road, Cambridge Uffington House, Dee Hills 47 Victoria street, Westminster, London Foregate street Newton Hall, Chester 9 and 11 Old Bank Buildings Maisonnette, Hough Green
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Jones, Mrs. Edward Derby place, Hoole
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Jones, Mr. J. MRoodee Works
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Kelham, Mr. Augustus Eversley park, Liverpool road
Kelsall, Miss HAbbot's court, Liverpool road
Kemp, Mr. George59 Bridge street
Kenyon, Mr. G. A., M.BFlookersbrook
Kenyon, Mrs,
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King, Mrs
*Kingsley, Miss 10 Walton place, Hans place, London, S. W.
Knowles, Mr. E. RGrosvenor street
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Lacy, Mrs Moore Holme, Neston
Lamont, Mr. A 3 City Walls (West)
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Lamont, Miss
Lanceley, Mr. R. HVictoria road
Latham, Mr. J. SGreen bank, Liverpool road
*Lawrence, Dr. A, The Asylum, Chester
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Lees, Mr. W., M.R.C.SThe Bars
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Lloyd, His Honour Sir Horatio Stanley place
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Lloyd, Miss M. E
Lloyd, Mr. R Bishop Graham's School, Chester
Lloyd, Miss E56, Princess street
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Lockwood, Mrs
Lomax, Mr. F. 1
Long, Rev. Francis, M.A 14 City Walls
Long Mrs 2 Lumley road • Longbottom, Mr. F. W
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Minshull Mr E	The Northgate
Minshull, Miss	A.S., Rutland Cottage, Parkgate road Abbot's villas, Liverpol, Stafford
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Moreton, Mr. T.W. E., M.R.C.S Morgan, Rev. J. B	2. Exton park
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Moreton, Mr. T.W. E., M.R.C.S Morgan, Rev. J. B	. ", .2 Exton park .1 South view, Eaton road .1 St. Gabriel's Vicarage, 4 Warwick .1 square, London, S.W12 Stanley place
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Moreton, Mr. T.W. E., M.R.C.S. Morgan, Rev. J. B. Morphy, Mr. H. *Morris, The Rev. Canon, D.D. Morris, Mrs. Morrison, Mrs. Mossford, Mr. John Mostyn, Sir Pyers W., Bart. Murgatroyd, Mr. Musgrave, Mrs. Musgrave, Miss Constance *Newstead, Mr. R., F.E.S. Nicholls, Mr. W. A. M. Nicholls, Mr. G. F. Nicholson, Mr. J. M. Nicholson, Mr. J. M. Nicholson, Mr. R. Leonard St. G. Noyes, Mr. H. J. *Okell, Mr. E. W. Okell, Mrs. W. Okell, Mrs. Oldfield, Mrs. Oldfield, Mrs. Oldfield, Miss Oldmeadow, Mr. Geo. E. Orton, Mr. R. O., J.P.	. ", .2 Exton park .1 South view, Eaton road . St. Gabriel's Vicarage, 4 Warwick .1 South view, Eaton road . St. Gabriel's Vicarage, 4 Warwick .1 Stanley place .16 Eaton road .The Rhigi, Tattenhall .Talacre, Holywell .21 Cambrian crescent .45 White friars . " " .The Grosvenor Museum .38, Eaton road .12 Chichester street .Liverpool road .13 Chichester street .Liverpool road .14 Cheyney villas .22 Northgate street . Woodville, Abbot's park .68 Northgate street .Woodville, Abbot's park .65 Parkgate road .Tattenhall, Chester
Moreton, Mr. T.W. E., M.R.C.S. Morgan, Rev. J. B. Morphy, Mr. H. *Morris, The Rev. Canon, D.D. Morris, Mrs. Morrison, Mrs. Mossford, Mr. John Mostyn, Sir Pyers W., Bart. Murgatroyd, Mr. Musgrave, Mrs. Musgrave, Miss Constance *Newstead, Mr. R., F.E.S. Nicholls, Mr. W. A. M. Nicholls, Mr. G. F. Nicholson, Mr. J. M. Nicholson, Mr. J. M. Nicholson, Mr. R. Leonard St. G. Noyes, Mr. H. J. *Okell, Mr. E. W. Okell, Mrs. W. Oldfield, Mrs. Oldfield, Mrs. Oldfield, Miss Oldmeadow, Mr. Geo. E.	. ", .2 Exton park .1 South view, Eaton road . St. Gabriel's Vicarage, 4 Warwick .1 South view, Eaton road . St. Gabriel's Vicarage, 4 Warwick .1 Stanley place .16 Eaton road .The Rhigi, Tattenhall .Talacre, Holywell .21 Cambrian crescent .45 White friars . " " .The Grosvenor Museum .38, Eaton road .12 Chichester street .Liverpool road .13 Cheyney villas .22 Northgate street . I Northgate street . Woodville, Abbot's park .68 Northgate street .Bryn Clwyd, St. Asaph .65 Parkgate road .Tattenhall, Chester . Bridge street row

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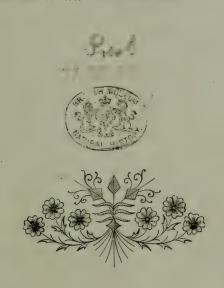
Raingill, Mrs	. Ash grove, Wrexham road
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Thornthwaite, Miss E. M.	.c/o Mrs. Hincks, Northgate street
Tilston, Miss	I King's huildings
Tinkler, Mr. G.	45 Nicholas street
Tinkler, Mr. G. Tomkinson, Mr. Jas., J.P. Tomlin, Mrs.	Willington Hall Chester
Tomlin Mrs	Thorne villa Livernool road
Tomlin, Miss Lilian Ethel	. Thorpe vina, Liverpoor road
Tomlin Miss Edith Clarabel	* 33
Tomlin, Miss Lilian Ethel Tomlin, Miss Edith Clarabel Townshend, Mr. C. W., J.P Trelawny, Mr. H. D., J.P Trelawny, The Hop, Mrs.	Travellyn Wrayham
Tralaway Mr H D I D	Shotwick park Chester
Trelauny The Hon Mre	Shotwick park, Choster
Trelawny, The Hon. Mrs Tyrer, Mrs Alfred	Plac Nawton Chester
Tyrei, Mis Amed	. I las Newton, Chester
*Vincent, Mr. W	2 Faton road
Vincent, Mrs.	. 2 Laton road
Vincent, mis	* 32
Wakefield, Mr. Robert	Newton Hall Gardens
Wakefield, Mr. T.	2 Torne ctreet
Waltefeld Mice A F	.3 Loine street
Wakefield, Miss A. E* *Walker, Mr. A. O., J.P., F.L.S.	Nant-y-Glyn Colwyn Bay
Walker, Mrs	. Nant-y-diyii, Colwyii Bay
Walker, Miss	22 Tiverpool road
Ward, Miss	18 Faton road
Watte Mr C T F	Greener Mucoum
Watts, Mr. C. T. F	Ctopley street
Wayne Mr W M	Westminetor buildings
Weaver, Mr. W. M. Weaver, Mr. Thos.	Forn Cottage Christleton
*Webster Mr G Watmough E	CS Brook lodge Brook lane
*Webster, Mr. G. Watmough, F.	C.S., Brook lodge, Brook lane
*Webster, Mr. G. Watmough, F. Webster, Mrs.	C.S., Brook lodge, Brook lane
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Webster, Mr. G. Watmough, F. Webster, Mrs. Webster, Mrs. Sirrell M. Webster, Miss Amy B.	C.S., Brook lodge, Brook lane ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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